col	кеу	chl	key	Soil Texture		Confining layer	XKSAT
1507989	652686			very gravelly sand	GRV-S	- Comming layer	7410711
1507992	652689			very gravelly loam	GRV-L	GRV-L	0.25
1507992	652689			very gravelly loam	GRV-L	GIV-L	0.23
1507992	652689	1507992		very gravelly clay loam	GRV-CL		
1507992	652689	1507992		very gravelly loam	GRV-L		
1507992	652689			indurated	IND		
1507995	652692	1507995		extremely cobbly coarse sandy toam	CBX-COSL	CBX-COSL	0.4
1507995	652692	1507995		gravelly coarse sandy loam	GR-COSL	00% 0002	0.4
1507995	652692	1507995		weathered bedrock	WB		
1507995	652692	1507995		unweathered bedrock	UWB		
1507995	652693	1507995		extremely gravelly sandy loam	GRX-SL	GRV-CL	0.04
1507995	652693	1507995		very gravelly clay loam	GRV-CL	0711 02	0.01
1507995	652693	1507995		gravelly clay	GR-C		
1507995	652693	1507995		weathered bedrock	WB		
1507995	652693	1507995		unweathered bedrock	UWB		
1507997	652697	1507997		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
1507997	652697	1507997		gravelly coarse sandy loam	GR-COSL	GIV-OF	V. 4
1507997	652697	1507997		weathered bedrock	WB		
1507997	652697	1507997		unweathered bedrock	UWB		
755744	1117678	755744		gravelly sandy loam	GR-SL	GR-SCL	0.04
755744		755744		gravelly sandy clay loam	GR-SCL	GK-SCL	, 0.04
755744		755744		gravelly sandy clay loam			
755744	1117678	755744		very gravelly coarse sandy loam	GR-SCL		
755744	1117678	755744		extremely gravelly sandy loam	GRV-COSL		
755744	1117678	755744		very gravelly loamy coarse sand	GRX-SL		
755744	1117679	755744			GRV-LCOS	01	- 0.4
755744	1117679	755744		gravelly sandy loam	GR-SL	SL	0.4
755744	1117679	755744		sandy loam sandy loam	SL	<u> </u>	
755744	1117679				SL Cl	}	
755744	1117679	755744 755744		sandy loam fine sandy loam	SL		
755805					FSL	00.00	
	1117734	755805		gravelly sandy loam	GR-SL	GR-SCL	0.04
755805 755805	1117734	755805		gravelly sandy clay loam	GR-SCL		
		755805		clay loam	CL		
755805		755805		ciay loam	CL	ļļ.	
	1117734	755805		unweathered bedrock	UWB		<u>.</u>
	1117735	755805		gravelly sandy loam	GR-SL	GRV-SCL	0.06
755805		755805		very gravelly sandy clay loam	GRV-SCL		
755805		755805		very cobbly sandy clay loam	CBV-SCL		·····
755805	1117735	755805		weathered bedrock	WB		
755852	1117781	755852		sandy loam	\$L	L	0.25
755852	1117781	755852	3187503		L		
755852	1117781	755852	3187504		L		
755852	1117781	755852	3187478		L		
755852	1117781	755852	3187505		L		
755718	1118760	755718		gravelly sandy loam	GR-SL	GR-SL	0.4
755718	1118760	755718		very gravelly sandy loam	GRV-SL		
755718		755718		very gravelly sandy loam	GRV-SL		
	1118760	755718		very gravelly sandy loam	GRV-SL		
	1118760	755718		sandy loam	SL		
755718		755718		indurated	IND		
755718	1118761	755718	3359017	very cobbly sandy loam	CBV-SL	CBV-SL	0.15

col	key	ch	key	Soil Texture		Confining layer	XKSAT
755718	1118761	755718		very cobbly sandy loam	CBV-SL		
755718				very cobbly sandy loam	CBV-SL		···
755718		755718		indurated	IND		
755852	1144685	755852		sandy loam	SL	SCL	0.06
755852	1144685	755852		sandy clay loam	SCL	332	0.00
755852	1144685	755852		sandy loam	SL		
755852	1144685	755852		gravelly sandy clay loam	GR-SCL		
755852	1144685	755852		gravelly sandy clay loam	GR-SCL		
798413	1150262	798413		gravelly sandy loam	GR-SL	GR-SL	0.4
798413		798413		gravelly sandy loam	GR-SL	91.52	
798413	1150262	798413		very gravelly loamy coarse sand	GRV-LCOS		
798413		798413	•	gravelly sandy clay loam	GR-SCL		
798403		798403		silty clay loam	SICL	SICL	0.04
798403		798403		silty clay loam	SICL		0.01
798403	1150263	798403		silty clay loam	SICL	"	 -
798403		798403			SIL		
798403		798403		sandy clay loam	SCL		
798418		798418		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798418	1152141	798418		very gravelly sandy loam	GRV-SL	OD/COL	V.T
798418	1152141	798418		unweathered bedrock	UWB		
798404		798404		extremely gravelly loam	GRX-L	GRX-L	0.25
798404	1152201	798404		very gravelly loam	GRV-L	GIOV-L	0.20
798404	1152201	798404		unweathered bedrock	UWB		
798419	1152208	798419		extremely gravelly sandy loam	GRX-SL	GRX-\$L	0.4
798419		798419		very gravelly sandy loam	GRV-SL	GRA-3L	0.4
798419	1152208	798419		unweathered bedrock	UWB		
798444	1152210	798444		very gravelly sandy clay loam	GRV-SCL	GRX-SCL	0.06
798444	1152210	798444		extremely gravelly sandy clay loam	GRX-SCL	GIVA-SCL	0.00
798444	1152210	798444		extremely gravelly coarse sandy loam	GRX-COSL		
798444	1152210	798444		very gravelly sandy clay loam	GRV-SCL		
798444	1152211	798444		very gravelly sandy loam very gravelly sandy loam	GRV-SCL	GRV-\$L	0.4
798444	1152211	798444		very gravelly sandy loam	GRV-SL	GRV-3L	0.4
798444	1152211	798444		extremely gravelly sandy loam	GRV-SL GRX-SL		
798444	1152211	798444		very gravelly sandy loam			
798444		798444			GRV-SL		
798430				extremely gravelly sandy loam very gravelly sandy loam	GRX-SL	CBV CI	0.4
798430		798430		very gravelly sandy loam very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798430					GRV-SL		***
798430				extremely gravelly sandy loam	GRX-SL		
798430		798430		indurated extremely gravelly sandy loam	IND	CDV CI	0.4
798430		798430			GRX-SL	GRX-SL	0.4
798430		798430		extremely gravelly sandy loam indurated	GRX-SL		
798442					IND	ODV OO:	0.00
		798442		very gravelly sandy clay loam	GRV-SCL	GRV-SCL	0.06
798442		798442		extremely gravelly sandy clay loam	GRX-SCL		
798442		798442		extremely gravelly coarse sandy loam	GRX-COSL		
798442	1152314	798442		very gravelly sandy clay loam	GRV-SCL		00:
798442	1152315	798442		sandy loam	SL	CL	0.04
798442	1152315	798442		clay loam	CL		
798442	1152315	798442	3545338		С		
798442	1152315	798442		very gravelly clay loam	GRV-CL		
798442	1152315	798442	3545356	very gravelly sandy loam	GRV-SL		

col	key	chi	key	Soil Texture		Confining layer	XKSAT
798442	1152315	798442		indurated	IND	Community tayor	AINOAT
798356		798356		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798356		798356		very gravelly sandy loam	GRV-SL	GIVA-3L	0.4
798356		798356		extremely gravelly sandy loam	GRX-SL		
798356		798356		gravelly sandy loam	GR-SL	GR-SL	0.4
798356		798356		extremely gravelly sandy loam	GRX-SL	GN-GL	0.4
798356	1152318	798356		very gravelly sandy loam	GRV-SL		
798356		798356		gravelly loamy sand	GR-L\$	GR-LS	1.2
798356	1152319	798356		extremely gravelly coarse sand	GRX-COS	GR-LO	1.2
798356		798356		extremely gravelly loamy coarse sand	GRX-LCOS		
755184	1152645	755184		very cobbly sandy loam	CBV-SL	CBV-CL	0.04
755184	1152645	755184		very cobbly day loam		CBV-CL	0.04
755184	1152645	755184		very gravelly sandy clay loam	CBV-CL		
755184	1152645	755184		very gravelly sandy clay loam	GRV-SCL		
755184	1152645	755184		very gravelly coarse sandy loam	GRV-SCL		
755184	1152645	755184		sandy clay loam	GRV-COSL		
798400	1156871	798400		extremely cobbly sandy loam	SCL	ODV O	0.1
798400	1156871	798400			CBX-SL	CBX-SL	0.4
798400	1156871	798400		extremely cobbly sandy loam unweathered bedrock	CBX-SL	<u> </u>	
798395	1156874	798395			UWB	511101	
798395	1156874	798395		very flaggy sandy loam	FLV-SL	FLV-SL	0.4
798395	1156874	798395		very flaggy sandy loam unweathered bedrock	FLV-SL		
798355		798355			UWB		4.0
798355	1156979	798355		gravelly loamy sand	GR-LS	GR-LS	1.2
798355	1156979			extremely gravelly coarse sand	GRX-COS		
798394	1156980	798355		extremely gravelly loamy coarse sand	GRX-LCOS		<u>-</u>
798394	1156980	798394		gravelly sandy loam	GR-SL	GR-SL	0.4
798394		798394		loamy coarse sand	LCOS		
798397	1156980	798394		extremely gravelly loamy coarse sand	GRX-LCOS		
	1156981	798397		gravelly loamy sand	GR-LS	GR-LS	1.2
798397	1156981	798397		gravelly loamy sand	GR-LS		••••
798397	1156981	798397		extremely gravelly sand	GRX-S		
798375	1156982	798375		extremely gravelly sand	GRX-S	GRX-S	4.6
798359	1156998	798359		very stony sandy loam	STV-SL	STV-SL	0.4
798359	1156998	798359		very gravelly sandy loam	GRV-SL		
798359	1156998	798359		extremely gravelly sandy clay loam	GRX-SCL		
798359	1156998	798359		extremely gravelly coarse sandy loarn	GRX-COSL		
798371	1156999	798371		very gravelly sandy clay loam	GRV-SCL	GRV-SCL	0.06
798371	1156999	798371		extremely gravelly sandy clay loam	GRX-SCL		
798371	1156999	798371		extremely gravelly coarse sandy loam	GRX-COSL		
798371	1156999	798371		very gravelly sandy clay loam	GRV-SCL		
798360	1157000	798360	3537205		L L	GR-SCL	0.04
798360	1157000	798360		gravelly sandy clay loam	GR-SCL		
798360	1157000	798360		gravelly sandy clay loam	GR-SCL		
798360	1157000	798360		very gravelly sandy clay loam	GRV-SCL		
798364	1157005	798364		gravelly loamy sand	GR-LS	GR-LS	1.2
798364	1157005	798364		very gravelly loamy coarse sand	GRV-LCOS		
798364	1157005	798364		gravelly loamy sand	GR-LS		
798364	1157005	798364		extremely gravelly loamy sand	GRX-LS		
798365	1157006	798365		extremely gravelly loarny sand	GRX-LS	GRX-LS	1.2
798365	1157006	798365		extremely gravelly loarny sand	GRX-LS		
798365	1157006	798365	3453205	extremely gravelly sand	GRX-S		

798424 1157008 798424 3551200 obtemby gravelly sandy loam GRX-SL GRX-SL O.4 798424 1157008 798424 3551200 obtemby gravelly loamy sand GRX-LS O.4 798424 1157008 798426 3551268 obtemby gravelly loamy sand GRX-LS GRX-SL O.4 798424 1157008 798426 3551268 obtemby gravelly loamy sand GRX-LS O.4 798436 1157010 798303 3551268 obtemby gravelly loamy sand GRX-SL GRX-SL O.4 798303 1157010 798303 3551268 obtemby gravelly loamy sand GRX-SL GRX-SL O.4 798303 1157017 798309 354003 very stony sandy loam GRX-SL GRX-SL O.4 798300 1157019 798309 354003 very stony sandy loam GRX-SL GRX-SL O.6 798300 1157019 798309 3540030 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157019 798309 3540030 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157010 798309 3540030 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157020 798302 3400370 very gravelly sandy loam GRX-SL GRX-CL O.6 798302 1157020 798302 3400370 very stony sandy loam GRX-SL GRX-CL O.6 798302 1157020 798302 3500007 ndurated IND GRX-SL GRX-CL O.6 798302 1157020 798302 3500007 very stony sandy loam GRX-SL GRX-CL O.6 798303 1157020 798302 3540620 very stony sandy loam GRX-SL GRX-SL O.4 798303 1157020 798309 3546602 very stony sandy loam GRX-SL GRX-SL O.4 798309 1157020 798309 3546602 very stony sandy loam GRX-SL GRX-SL O.4 798309 1157020 798309 3546602 very stony sandy loam GRX-SL GRX-SL O.4 798309 1157020 798309 3546602 very stony sandy loam GRX-SL GRX-SL O.4 798309 1157400 798300 3546600 very stony sandy loam GRX-SL GRX-SL O.4 798300 1157450 798300 3546600 very stony sandy loam GRX-SL GRX-SL O.4 798300 1157450 798300 3546000 3646000 3646000 3646000 3646000 3646000 3646000 3646000 3646000 3646000 3646000 36	col	key	chi	key	Soil Texture		Confining layer	XKSAT
1799424 1157000 798424 3551256 bottomely gravelly loamy sand GRX-LS	 					CRY-SI		
1798424 1157008 798424 3551252 outromely gravelly loamy sand GRX-SL GRX-SL O. 4 798363 1157010 798363 3551262 outromely gravelly loamy sand GRX-SL GRX-SL O. 4 798363 1157010 798363 3551262 outromely gravelly loamy sand GRX-SL GRX-SL O. 6 798369 1157019 798369 354186 very story sandy loam STV-SL STV-SCL O. 0. 6 798369 1157019 798369 354186 very story sandy loam STV-SL STV-SCL O. 0. 6 798369 1157019 798369 354186 very story sandy loam STV-SL STV-SCL O. 0. 6 798369 1157019 798369 3546080 very story stardy STV-C O. 0. 1	J						GIV-3L	0.4
1798363 1157010 798363 3851262 extremely gravelly sandy loam GRX-LS GRX-SL 0.4) .							
798363 1157010 798369 3551268 edemely gravelly loamy sand GRX-LS 798369 1157019 798369 354083 very story sandy loam STV-SL 0.06 798369 1157019 798369 3540804 very story sandy loap STV-C 798369 1157019 798369 3550005 InDD D 1798382 1157020 798382 3490371 very gravelly sandy loam GRX-CL 0.04 798382 1157020 798382 3490371 very gravelly sandy loam GRX-CL 0.04 798382 1157020 798382 3490387 very gravelly sandy loam GRX-CL 0.04 798382 1157020 798382 35900071 Industed IND IND 798382 1157020 798382 3490380 very story sandy loam GRX-CL 0.04 798382 1157020 798382 3545659 3545659 very story sandy loam GRX-SL STV-SL 0.4 798376 1157021 798382 3545659 <td>l</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>GRX-SI</td> <td>0.4</td>	l						GRX-SI	0.4
198369 1157019 798369 3348036 very storry sandy loarn	798363					1	Grotton	ŲT
T98309 1157019 798309 3546188 very storry sandy clay STV-C	H						STV-SCL	0.06
P88369 1157019 798369 3546005 indurated IND	798369						01.002	0.00
798388 1157019 798389 3560005 Indurated IND	798369							
798382 1157020 798382 3490371 very gravelly sandy loam GRV-SL GRX-CL 0.04	798369					·		
798382 1157020 798382 3490370 extremely gravelly clay loam GRX-CL	798382	-	•			}	GRX-CL	0.04
798382 1157020 798382 3490369 ever story clay STV-C 798382 1157020 798382 3490369 ever story clay STV-C 798389 1157020 798382 3560007 indurated IND 798359 1157021 798359 3545659 gravelly sandy loam GR-SL 798359 1157021 798359 3545659 ever gravelly sandy loam GRV-SL 798376 1157021 798359 3545659 ever gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 ever gravelly sandy loam GRV-SL GRV-SL 798502 1157450 798502 3545828 ever gravelly sandy loam GRV-SL GRV-SL 798502 1157450 798502 3545828 ever gravelly sandy loam GRV-SL GRV-SL 798502 1157450 798502 3545828 ever gravelly sandy loam GRV-SL GRV-SL 798446 1157450 798502 3545828 ever gravelly sandy loam GRV-SL L 798446 1157450 798502 3545828 ever gravelly sandy loam GRV	798382		798382					
T98382	798382							
798382 1157020 798382 3560007 indurated IND 798359 1157021 798359 3545689 gavely sandy loam GR-SL 798359 1157021 798359 3545689 gavely sandy loam GRV-SL 798376 1157021 798376 3440314 very gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798646 1157450 798502 3545829 very gravelly sandy loam GRV-SL 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3546138 joan L 798446 1157452 798446 3546131	798382							
798359 1157021 798359 3545652 very stony sandy loam STV-SL STV-SL 0.4 798359 1157021 798359 3545659 gravelly sandy loam GR.S.L 798376 798376 1157028 798376 3440314 very gravelly sandy loam GRV-SL 0.4 798376 1157028 798373 3440315 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545822 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545822 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545822 very gravelly sandy loam GRV-SL 0.4 798446 1157450 798502 3545820 very gravelly sandy loam GR-SL 0.25 798446 1157451 798446 3454891 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3546136 gravelly sandy loam GR-SL	798382							
798359 1157021 798359 3545658 gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798440 1157450 798502 3545826 very gravelly sandy loam GR-SL 798440 1157451 798446 3454581 gravelly sandy loam GR-SL L 798440 1157451 798446 3560004 indurated IND 798446 1157452 798446 3564138 loam L 798446 1157452 <td< td=""><td>798359</td><td></td><td></td><td>3545652</td><td>very stony sandy loam</td><td></td><td>STV-SL</td><td>0.4</td></td<>	798359			3545652	very stony sandy loam		STV-SL	0.4
798359 1157021 798356 3845659 very gravelly sandy loam GRV-SL 0.4 798376 1157028 798376 3440314 very gravelly sandy loam GRV-SL 0.4 798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GR-SL 0.2 798446 1157451 798446 3454581 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3545800 loam L 0.25 798446 1157452 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 gravelly sandy loam L 0.25			798359					- •••
798376 1157028 798376 3440314 very gravelly sandy loam GRV-SL QRV-SL 798502 1157450 798502 3545628 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798446 1157451 798446 3454580 loam GR-SL 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3454580 loam L 798446 1157451 798446 3550004 indurated iND 798446 1157452 798446 356138 loam L 798446 1157452 798446 356138 loam L 798446 1157452 798446 356138 loam L 798446 1157452 798446 3660318 loam L <td>798359</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	798359							
798376 1157028 798376 3440315 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545826 very gravelly sandy loam GR-SL 798446 1157450 798502 3545826 very gravelly sandy loam GR-SL 798446 1157451 798446 3454580 gravelly sandy loam GR-SL 798446 1157451 798446 354580 gravelly sandy loam GR-SL 798446 1157451 798446 3546139 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546139 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546137 loam L U 0.25 798446 1157452 798446 3546139 loa	-				· · · · · · · · · · · · · · · · · · ·		GRV-SL	0.4
798502 1157450 798502 3545828 very gravelly sandy loam GRV-SL 0.4 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798502 1157450 798502 3545827 very gravelly sandy loam GRV-SL 798446 1157450 798502 3545826 very gravelly sandy loam GRV-SL 798446 1157451 798446 3454581 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157451 798446 3546135 gravelly sandy loam GR-SL L 0.25 798446 1157452 798446 3546135 gravelly sandy loam L U 0.25 798446 1157452 798446 3546135 loam L U 0.25 798486 1157452 798446 3560003 indurated IND IND IND 0.4	1							•••
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	798371	1157458	798371					

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798382	1157460	798382	3537708	very gravelly coarse sandy loam	GRV-COSL	GRV-COSL	0.4
798382		798382		very gravelly coarse sandy loam	GRV-COSL	0111 0002	
798382		798382		indurated	IND		
798406		798406	3548484	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798406	1157462	798406		extremely gravelly sandy loam	GRX-SL		
798406	1157462	798406	·	extremely gravelly sandy loam	GRX-SL		
798406	1157462	798406		very gravelly coarse sand	GRV-COS		
798406	1157462	798406		extremely cobbly coarse sand	CBX-COS		
798376	1157464	798376		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798376	1157464	798376		very gravelly sandy loam	GRV-\$L		
798376	1157464	798376		indurated	IND		
798477	1157465	798477	3548626	very stony loam	STV-L	STV-CL	0.04
798477	1157465	798477		very stony clay loam	STV-CL		
798477	1157465	798477		unweathered bedrock	UWB		
798360	1157466	798360	3533726	gravelly sandy loam	GR-SL	GR-SL	0.4
798360	1157466	798360		gravelly sandy loam	GR-SL		
798360	1157466	798360		gravelly loam	GR-L		
798360	1157466	798360		gravelly sandy clay loam	GR-SCL		
798476	1157467	798476		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798476	1157467	798476		very cobbly sandy toam	CBV-SL		
798476	1157467	798476		indurated	IND		
798476	1157467	798476	3560057	unweathered bedrock	UWB		
798476	1157468	798476	3547670	sandy loam	SL	SL	0.4
798476	1157468	798476		sandy loam	SL		
798476	1157468	798476		gravelly sandy clay loam	GR-SCL		
798476	1157468	798476		gravelly sandy loam	GR-SL		
798476	1157468	798476		very gravelly loamy sand	GRV-LS		
798476	1157469	798476		very cobbly loam	CBV-L	CBV-SICL	0.04
798476	1157469	798476	3576546	very cobbly silty clay loam	CBV-SICL		
798476	1157469	798476	3576548	very cobbly clay	CBV-C		•
798476	1157469	798476	3560056	unweathered bedrock	UWB		
798362	1157470	798362	3548943	very gravelly loam	GRV-L	GRV-CL	0.04
798362	1157470	798362	3548944	very gravelly clay loam	GRV-CL		
798362	1157470	798362	3640253	extremely gravelly sandy clay loam	GRX-SCL		
798362	1157470	798362	3560058	unweathered bedrock	UWB		
798368	1157472	798368	3496471	very gravelly sandy loam	GRV-SL	GRX-SCL	0.06
798368	1157472	798368	3889588	extremely gravelly sandy clay loam	GRX-SCL		
798368	1157472	798368	3496470	extremely gravelly sandy clay loam	GRX-SCL		
798368	1157472	798368	3560059	unweathered bedrock	UWB		
798372	1157473	798372	3546197	gravelly loam	GR-L	GR-L	0.25
798372	1157473	798372	3546230	gravelly sandy loam	GR-SL		
798372	1157473	798372	3546231	gravelly sandy clay loam	GR-SCL		
798372	1157473	798372	3560010	indurated	IND		
798372	1157473	798372	3546233	extremely gravelly sand	GRX-S		
798372	1157474	798372	3545661	gravelly sandy loam	GR-SL	GR-SL	0.4
798372	1157474	798372	3545660	gravelly sandy loam	GR-SL		
798372	1157474	798372	3545663	extremely gravelly coarse sandy loam	GRX-COSL		
798372	1157474	798372	3545662	extremely gravelly coarse sandy loam	GRX-COSL		
798407	1157476	798407	3492512	cobbly clay loam	CB-CL	CB-CL	0.04
798407	1157476	798407	3492509	cobbly clay loam	CB-CL		
798407	1157476	7 98407	3492508	very cobbly clay loam	CBV-CL		

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#	key		key	Soil Texture	ļ	Confining layer	XKSAT
798407	1157476	798407		very cobbly clay	CBV-C		
798407	1157476	798407		unweathered bedrock	UWB		
798396		798396		silty clay loam	SICL	CL	0.04
798396		798396		clay loam	CL		
798396		798396		clay loam	CL		
798396		798396		clay loam	CL		
798396	1157477	798396	3549649	silty clay loam	SICL		
798396	1157478	798396	3549418	sandy loam	SL	SL	0.4
798396	1157478	798396	3549417	sandy loam	SL		
798396	1157478	798396	3549422	sandy loam	SL		
798396	1157478	798396	3549416	sandy loam	SL		
798396	1157478	798396	3549421	clay loam	CL		
798396	1157479	798396	4097922	loamy sand	LŞ	LS	1.2
798396	1157479	798396	4097923	loamy sand	LS		
798396	1157479	798396		sandy loam	SL		
798396	1157479	798396		loamy sand	LS	 	
798366	1157480	798366		sandy loam	SL	L.	0.25
798366	_	798366	3491262		L	 	J.25
798366	1157480	798366		clay loam	CL	 	
798366	1157480	798366		sandy clay loam	SCL	 	
798366		798366	3491259		L		
798366	1157481	798366		sandy loam	SL	SL	0.4
798366	1157481	798366		sandy loam	SL	35	0.4
798366	1157481	798366		sandy loam	SL		
798366	1157481	798366		loamy sand	LS		
798414	1157482	798414		sandy loam	SL		0.05
798414	1157482	798414	3550109		L	L	0.25
798414	1157482	798414	3550105		L		
798414	1157482	798414		clay loam	CL		
798414	1157482	798414		sandy clay loam	•	<u> </u>	
798414	1157482	798414		sandy clay loam	SCL	 	
798414	1157482	798414		clay loam	SCL	 	
798414	1157482	798414		sandy loam	CL		
798414		798414			SL		
798414				sandy loam	\$L	SL	0.4
	1157483 1157483	798414		sandy loam	SL		
798414		798414		sandy loam	SL.		
	1157483 1157484	798414		sandy loam	SL		
		798385		sandy loam	SL	SL	0.4
798385	1157484	798385		sandy loam	SL		
798385	1157484	798385		sandy loam	SL		
798385	1157484	798385		sandy foam	SL		
798385	1157484	798385		extremely gravelly sand	GRX-S		
798385	1157485	798385		sandy loam	SL	L	0.25
798385	1157485	798385	3550115		L		
798385	1157485	798385	3550116		L		_
798385	1157485	798385	3550117		CL		
798385	1157485	798385		sandy clay loam	SCL		
798385	1157485	798385		sandy clay loam	SCL		
798385	1157485	798385	3550120		CL		
798385	1157485	798385		sandy loam	SL		
798367	1157486	798367	3494932	gravelly sandy loam	GR-SL	GR-SL	0.4

CO	key	ch	key	Soil Touture	<u> </u>	I a . a	
798367				Soil Texture		Confining layer	XKSAT
		798367		gravelly sandy loam	GR-SL		
798367	1157486	798367		gravelly sandy loam	GR-SL		
798367	1157486			gravelly sandy loam	GR-SL		
798367	1157486	798367		very gravelly sandy loam	GRV-SL		
798402	1157488	798402	3550360		SIL	SIL	0.15
798402	1157488	798402			SIL		
798402	1157488	798402		silty clay loam	SICL		
798402	1157488	798402		clay loam	CL		
798392	1157492	798392		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798392	1157492	798392		extremely gravelly sandy loam	GRX-SL		
798392		798392		very gravelly sandy clay loam	GRV-SCL		
798392		798392		very gravelly sandy clay loam	GRV-SCL		
798392		798392		weathered bedrock	WB		
798392	1157493	798392		extremely cobbly sandy loam	CBX-SL	CBX-\$L	0.4
798392	1157493	798392		very gravelly sandy loam	GRV-SL		
798392	1157493	798392		very gravelly sandy clay loam	GRV-SCL		
798392	1157493	798392		very cobbly sandy clay loam	CBV-SCL		
798392	1157493	798392	3889436	very cobbly sandy clay loam	CBV-SCL		•
798392		798392		very cobbly sandy clay loam	CBV-SCL		
798392	1157494	798392		extremely stony sandy loam	STX-SL	STX-SL	0.4
798392	1157494	798392	3442347	very gravelly sandy loam	GRV-\$L		
798392	1157494	798392	3560113	weathered bedrock	WB		
798417	1157496	798417	3534066	extremely stony coarse sandy loam	STX-COSL	STX-COSL	0.4
798417	1157496	798417	3534067	extremely stony coarse sandy loam	STX-COSL		
798417	1157496	798417	3569014	unweathered bedrock	UWB		
798491	1157497	798491	3534504	extremely stony loam	STX-L	CBV-SIL	0.15
798491	1157497	798491		very cobbly silt loam	CBV-SIL		
798491	1157497	798491	3534505	very cobbly loam	CBV-L		
798491	1157497	798491	3534510	very cobbly sandy loam	CBV-SL		
798491	1157498	798491	3548898	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798491	1157498	798491	3548899	very cobbly sandy loam	CBV-SL		
798491	1157498	798491	3560011	indurated	IND		
798491	1157498	798491	3560061	unweathered bedrock	UWB		
798490		798490		extremely stony loam	STX-L	CBV-SIL	0.15
798490	1157499	798490	3534513	very cobbly silt loam	CBV-SIL		
798490	1157499	798490	3534514	very cobbly loam	CBV-L		
798490	1157499	798490	3534515	very cobbly sandy loam	CBV-SL		
798490	1157500	798490	3548938	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798490	1157500	798490	3548939	very gravelly sandy loam	GRV-SL		
798490	1157500	798490	3560012	indurated	IND		
798490	1157500	798490	3560062	unweathered bedrock	UWB		
798445	1157507	798445	3440230	gravelly sandy loam	GR-SL	GR-SL	0.4
798445	1157507	798445	3440232	very gravelly sandy loam	GRV-SL		
798445	1157507	798445	3440342	very gravelly sandy loam	GRV-SL		
798445	1157507	798445	3440341	very gravelly sandy toam	GRV-SL		
798445	1157508	798445	3544963	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798445	1157508	798445	3544961	gravelly sandy loam	GR-SL		
798445	1157508	798445		very gravelly sandy loam	GRV-SL		
798445	1157508	798445	3560014		IND		
798445	1157508	798445		extremely gravelly loamy sand	GRX-LS		
798445	1157509	798445		gravelly coarse sandy loam	GR-COSL	GR-SL	0.4
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798445	1157509	798445	,	gravelly sandy loam	GR-SL	outilities (a) of	7410711
798445		798445		gravelly sandy clay loam	GR-SCL		
798445		798445		indurated	IND		
798445		798445		extremely gravelly sand	GRX-S		
798405		798405		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798405		798405		very gravelly sandy loam	GRV-SL	0111 02	
798405		798405		indurated	IND		
798405		798405		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798405	1157511	798405		very cobbly sandy loam	CBV-SL		0110
798405		798405		very cobbly sandy loam	CBV-SL		
798405		798405		extremely gravelly coarse sand	GRX-COS		
798405		798405		extremely gravelly coarse sand	GRX-COS		
798405	-	798405		extremely gravelly coarse sand	GRX-COS		
798405	1157511	798405		extremely gravelly coarse sand	GRX-COS		
798431	1157512	798431		very gravelly coarse sandy loam	GRV-COSL	GRV-ÇOSL	0.4
798431	1157512	798431		very gravelly coarse sandy loam	GRV-COSL	3.17-000L	4. -7
798431	1157512	798431		very gravelly sandy clay loam	GRV-SCL		
798431	1157512	798431		indurated	IND	<u> </u>	
798431	1157513	798431		very gravelly sandy loam	GRV-SL	GRV-\$L	0.4
798431	1157513	798431		very gravelly sandy loam	GRV-SL	OKV-OL	
798431	1157513	798431		very gravelly sandy loam	GRV-SL		
798431	1157513	798431		indurated	IND		
798383	1157517	798383		extremely gravelly coarse sandy loam	GRX-COSL	GRX-COSL	0.4
798383	1157517	798383		extremely cobbly coarse sandy loam	CBX-COSL	GIVA-COOL	Ų. 4
798383	1157517	798383		extremely cobbly coarse sandy loam	CBX-COSL		
798383	1157517	798383		indurated	IND		
798503	1157518	798503		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798503	1157518	798503		very gravelly sandy loam	GRV-SL	GIV-GL	U.4
798503	1157519	798503		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798503	1157519	798503		very gravelly sandy loam	GRV-SL GRV-SL	GIV-SL	0.4
798503		798503		indurated	IND		
798503	1157519	798503		gravelly sandy loam	GR-SL	GR-SL	0.4
798503		798503		gravelly sandy loam	GR-SL	GK-SL	0.4
798503		798503		extremely gravelly sandy loam	GRX-SL		
798503		798503		indurated			
798398		798398		extremely gravelly sandy loam	IND GRX-SL	CDV 61	0.4
798398	1157521	798398				GRX-SL	0.4
798398		798398		extremely gravelly sandy toam indurated	GRX-SL		
798370		798370		extremely gravelly sandy loam	IND CBV 81	CPV el	0.4
798370		798370		extremely gravelly sandy loam extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
	$\overline{}$				GRX-SL		
798370 798370		798370		extremely gravelly sandy loam	GRX-SL		
		798370		indurated	IND		
798370	1157522	798370		unweathered bedrock	UWB	ODY O	
798370	1157523	798370		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798370	1157523	798370		extremely gravelly sandy loam	GRX-SL		
798370	1157523	798370		indurated	IND		
798370		798370		unweathered bedrock	UWB	0000000	
798370	1157524	798370		very gravelly sandy loam	GRV-SL	GRV-SCL	0.06
798370	1157524	798370		very gravelly sandy clay loam	GRV-SCL		
798370	1157524	798370		very gravelly sandy clay loam	GRV-SCL		
798370	1157524	798370	3496629	very gravelly sandy clay loam	GRV-SCL		

co	key	ch	key	Soil Texture		Confining layer	XKSAT
798370	1157524	798370	3560022	indurated	IND	3,	
798370	1157524	798370		unweathered bedrock	UWB		
798437	1157527	798437		extremely stony loam	STX-L	STX-L	0.25
798437	1157527	798437		extremely stony loam	STX-L		0.20
798437	1157527	798437		unweathered bedrock	UWB		
798378	1157528	798378		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798378	1157528	798378		extremely gravelly sandy loam	GRX-SL	3,3,02	0.1
798378	1157528	798378		indurated	IND		
798378	1157528	798378		unweathered bedrock	UWB		
798378	1157529	798378		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798378		798378		extremely gravelly sandy toam	GRX-SL	5,0,02	
798378		798378		indurated	IND		
798378		798378		unweathered bedrock	UWB		
798436		798436		very gravelly toam	GRV-L	GRV-L	0.25
798436		798436		very gravelly loam	GRV-L	ORV-L	- 0.20
798436		798436		unweathered bedrock	UWB		
798438		798438		extremely stony loam	STX-L	STX-L	0.25
798438		798438		very cobbly loam	CBV-L		0.20
798438		798438		extremely cobbly loam	CBV-L CBX-L		
798438	1157533	798438		extremely cobbly sandy clay loam	CBX-SCL		
798438		798438		extremely cobbly day loam	CBX-CL		
798438		798438		extremely stony loam	STX-L	STX-L	0.25
798438		798438		extremely gravelly sandy loam	GRX-SL	SIA-L	0.25
798438		798438		unweathered bedrock	UWB		
798505		798505		loamy sand	LS	LS	1.2
798505		798505		loamy sand	LS	- 13	1.2
798505		798505		sandy loam	SL.		
798505	1157540	798505		loamy sand	LS		
798373	1157541	798373		gravelly sandy loam		CD CI	0.4
798373	1157541	798373		gravelly sandy loam	GR-SL	GR-SL	0.4
798373	1157541	798373			GR-SL		
798373	1157541	798373		very gravelly sandy loam indurated	GRV-SL		
798373	1157542	798373			IND	00.01	2.1
798373				gravelly sandy loam	GR-SL	GR-SL	0.4
	1157542 1157542	798373 798373		gravelly sandy loam	GR-SL	<u></u>	
798373				very gravelly sandy loam	GRV-SL		
		798373		extremely gravelly sandy loam	GRX-SL	001/01	
798357		798357		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798357	1157543	798357		very gravelly sandy loam	GRV-SL		
798357	1157543	798357		weathered bedrock	WB	0711.5	
798357	1157544	798357		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798357	1157544	798357		very gravelly sandy loam	GRV-SL		
798357	1157544	798357		very gravelly sandy loam	GRV-SL		
798357	1157545	798357		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798357	1157545	798357		very gravelly sandy loam	GRV-SL		
798357	1157545	798357		very gravelly sandy loam	GRV-SL		
798357	1157545	798357		weathered bedrock	WB		
798357	1157545	798357		unweathered bedrock	UWB		
798361	1157546	798361		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798361	1157546	798361		very gravelly sandy loam	GRV-SL		
798361	1157546	798361		weathered bedrock	WB		
798361	1157546	798361	3560073	unweathered bedrock	UWB		

col	key	chi	key	Soil Texture	Ī	Confining layer	XKSAT
798361	1157547	798361	3550917	very gravelly sandy clay loam	GRV-SCL	GRV-SCL	0.06
798361	1157547	798361		very gravelly sandy clay loam	GRV-SCL		
798361	1157547	798361		weathered bedrock	WB		
798361	1157547	798361	 	unweathered bedrock	UWB		
798416	1157548	798416	3546248	gravelly sandy clay loam	GR-SCL	GR-SCL	0.04
798416	1157548	798416		gravelly sandy loam	GR-SL		
798416	1157548	798416	3546239	gravelly sandy clay loam	GR-SCL		
798416	1157548	798416	3560028	indurated	IND		
798416	1157548	798416	3546241	extremely gravelly sand	GRX-S		
798416	1157549	798416	3497735	gravelly sandy clay loam	GR-SCL	GR-SCL	0.04
798416	1157549	798416	3497734	gravelly sandy clay loam	GR-SCL		
798416	1157549	798416	3497733	clay loam	CL		
798416	1157549	798416	3497732	very gravelly sandy loam	GRV-SL		
798416	1157549	798416	3497731	extremely gravelly loarny coarse sand	GRX-LCOS		
798443	1157550	798443	3440354	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798443	1157550	798443	3440247	very gravelly sandy loam	GRV-SL		
798443	1157551	798443	3545017	very gravelly sandy loam	GRV-SL		
798443	1157551	798443	3545016	very gravelly sandy loam	GRV-SL		
798443	1157551	798443	3545018	extremely gravelly sandy loam	GRX-SL		
798443	1157551	798443	3560029	indurated	IND	·	
798443	1157552	798443	3454456	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798443	1157552	798443	3454455	gravelly sandy loam	GR-SL		
798443	1157552	798443	3454454	very gravelly sandy loam	GRV-SL		
798443	1157552	798443	3454453	very gravelly loamy sand	GRV-LS		
798412	1157553	798412	3533820	sandy loam	SL	SL	0.4
798412	1157553	798412	3533818	gravelly sandy loam	GR-SL		
798412	1157553	798412	3533819	gravelly sandy clay loam	GR-SCL		
798374	1157554	798374	3534544	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798374	1157554	798374	3534539	very gravelly sandy loam	GRV-SL		
798374	1157554	798374	3534547	extremely gravelly loamy sand	GRX-LS		
798374	1157554	798374	3534540	extremely gravelly sandy loam	GRX-SL		
798374	1157554	798374	3534545	extremely gravelly loamy sand	GRX-LS		·
798374	1157555	798374	3440248	gravelly sandy loam	GR-SL	GR-SL	0.4
798374	1157555	798374	3440250	very gravelly sandy loam	GRV-SL	:	
798504	1157557	798504	3551113	very gravelly sandy loam	GRV-SL	GR-SCL	0.04
798504	1157557	798504		gravelly sandy clay loam	GR-SCL		
798504	1157557	798504	3551116	gravelly sandy clay loam	GR-SCL		
798504	1157557	798504		very gravelly sandy loam	GRV-SL		
798504	1157558	798504		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798504	1157558	798504	3545293	very gravelly sandy loam	GRV-SL		
798504	1157558	798504		indurated	IND		
798512		798512	3550866	very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798512		798512		very cobbly sandy loam	CBV-SL		
798512	1157560	798512	3560074	unweathered bedrock	ŲWB		
798384	1157563	798384		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798384	1157563	798384		very cobbly coarse sandy loam	CBV-COSL		
798384	1157563	798384	3560075	unweathered bedrock	UWB		
798420	1157567	798420		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798420	1157567	798420		extremely gravelly sandy loam	GRX-SL		
798420	1157567	798420		extremely gravelly sandy loam	GRX-SL		
798420	1157567	798420	3442832	extremely gravelly loamy sand	GRX-LS		

CO	key	ch	key	Soil Texture		Confining layer	XKSAT
798421	1157570	798421	3576622	extremely stony sandy loam	STX-SL	STX-SL	0.4
798421		798421		very gravelly sandy loam	GRV-SL		
798421		798421		unweafhered bedrock	UWB		
798421		798421		extremely cobbly sandy loam	CBX-SL	CBX-L	0.25
798421	1157571	798421		extremely cobbly loam	CBX-L		00
798421	1157571	798421		extremely cobbly sandy loam	CBX-SL		
798488	1157572	798488		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798488	1157572	798488		very gravelly sandy loam	GRV-SL		
798488	1157572	798488	-	unweathered bedrock	UWB		
798488	1157573	798488	3551164	extremely gravelly loam	GRX-L	GRX-L	0.25
798488		798488		extremely gravelly loam	GRX-L		
798488	1157573	798488		extremely gravelly loam	GRX-L		
798488		798488		cemented	CEM		
798506	1157580	798506	3551207	sand	S	S	4.6
798395	1157589	798395		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798395		798395		very gravelly sandy loam	GRV-SL		
798395	_	798395		very gravelly loam	GRV-L		
798423		798423		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL	5,0,02	0.1
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL		
798423	1157595	798423		extremely gravelly sandy loam	GRX-SL	-	
798423	1157595	798423		extremely gravelly foamy sand	GRX-LS		
798424	1157596	798424		extremely gravelly loam	GRX-L	GRX-L	0.25
798424		798424		very gravelly sandy loam	GRV-SL	GIVE	0.20
798424	1157596	798424		very gravelly sandy loam	GRV-SL		
798424	1157596	798424		extremely gravelly loamy sand	GRX-LS		
798424	1157596	798424		very gravelly loamy sand	GRV-LS		
798422	1157597	798422	_	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798422	1157597	798422	_	gravelly sandy loam	GR-SL	OBAGE	0.4
798422	1157597	798422		extremely gravelly sandy loam	GRX-SL		
798487	1157602	798487		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798487	1157602	798487		very gravelly sandy loam	GRV-SL	OITT GE	Ų. 1
798487	1157602	798487		very gravelly coarse sandy loam	GRV-COSL		
798487	1157602	798487		indurated	IND		
798487		798487		unweathered bedrock	UWB		
798401	1157603	798401		very gravelly loamy sand	GRV-LS	GRV-LS	1.2
798401	1157603	798401		very gravelly loamy sand	GRV-LS	0.14 10	1.4
798401	1157603	798401		gravelly loamy sand	GR-LS		
798401	1157603	798401	3551300		FS		
798481	1157605	798481		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798481	1157605	798481		extremely cobbly sand	CBX-S	05/,02	U.7
798358		798358		very channery loam	CNV-L		-
798358		798358		very channery clay loam	CNV-CL		
798358		798358		very channery clay	CNV-CL CNV-C		
798358	1157609	798358		weathered bedrock	WB		
798358	1157609	798358		weathered bedrock	WB		
798479	1157611	798479		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798479	1157611	798479		very gravelly sandy loam	GRV-SL	ODA-OL	υ.4
798479	1157611	798479		unweathered bedrock	UWB		
798479	1157612	798479		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798479		798479		extremely gravelly sandy toam	GRX-SL	CDA-OL	V.4
, 55-77-3	1101014	100+10	U-UUUZQ	ovaculer diasen's salina inalli	GLV-9F	ı	

col	сеу	çhl	кеу	Soil Texture		Confining layer	XKSAT
798479	1157612	798479	3455622	extremely gravelly sandy loam	GRX-\$L		
798479	1157612	798479		unweathered bedrock	UWB		
798485	1157618	798485	3430109	sandy loam	SL	L	0.25
798485		798485	3430108		L		
798485	1157618	798485	3889461	sandy clay loam	SCL		
798485	1157618	798485		sandy clay loam	SCL		
798485	1157618	798485		unweathered bedrock	UWB		
798485	1157619	798485	3434034	sandy loam	SL	SL	0.4
798485	1157619	798485	3434033	sandy loam	SL		
798485	1157619	798485		sandy clay loam	SCL		
798485	1157619	798485		unweathered bedrock	UWB		
798440	1157624	798440	3454699	very gravelly sandy loam	GRV-SL	GRX-L	0.25
798440	1157624	798440		extremely gravelly loam	GRX-L		
798440	1157624	798440		very gravelly sandy loam	GRV-SL		
798440	1157624	798440		extremely gravelly sandy loam	GRX-SL		
798440		798440		gravelly sandy loam	GR-SL	GR-L	0.25
798440		798440		gravelly loam	GR-L		
798440		798440		cemented	CEM		
798440		798440		extremely gravelly sandy loam	GRX-SL		
798415		798415		gravelly sandy loam	GR-SL	GR-SCL	0.04
798415		798415		gravelly sandy clay loam	GR-SCL	37.332	
798415		798415		gravelly sandy clay loam	GR-SCL		
798415		798415		cemented	CEM		
798415		798415		unweathered bedrock	UWB		
798415		798415		very gravelly sandy loam	GRV-SL	GR-SCL	0.04
798415		798415		gravelly sandy clay loam	GR-SCL		3.3.
798415		798415		gravelly sandy clay	GR-SC		
798415		798415		cemented	CEM		
798415		798415		unweathered bedrock	UWB		
798493	1157635	798493		gravelly clay loam	GR-CL	GR-CL	0.04
798493	1157635	798493		gravelly clay loam	GR-CL		0.01
798493	1157635	798493		gravelly clay loam	GR-CL		
798493	1157635	798493		gravelly clay	GR-C		
798493		798493	3551580		С		
798493		798493		unweathered bedrock	UWB		
798493		798493		very cobbly sandy loam	CBV-SL	CBV-CL	0.04
798493		798493		very cobbly clay loam	CBV-CL		
798493		798493		very cobbly silty clay	CBV-SIC		
798493		798493		unweathered bedrock	UWB		
798387	1157639	798387	3445925		SIL	SIL	0.15
798387	1157639	798387	3445924		L	<u> </u>	
798387	1157639	798387		clay loam	CL		
798449	1157642	798449		very gravelly sandy loam	GRV-SL	GRV-SL	0.4
798449	1157642	798449		very gravelly sandy loam	GRV-SL	OIXV-OL	υ.τ
798449	1157642	798449		unweathered bedrock	UWB		
798411	1157644	798411		extremely cobbly loam	CBX-L	CBX-CL	0.04
798411	1157644	798411		extremely cobbly clay toam	CBX-CL	ODA-OL	V.U+
798411	1157644	798411	3551758		C C		
798411	1157644	798411		unweathered bedrock	UWB		
798441	1157647	798441		gravelly sandy loam		GP C	0.01
1 					GR-SL	GR-C	0.01
798441	1157647	798441	3001776	gravelly clay	GR-C	[

col	key	ch	key	Soil Texture		Confining layer	XKSAT
798441	1157647	798441		very gravelly sandy clay	GRV-SC	Comming layer	ANOAT
798441	1157647	798441		very gravelly sandy clay loam	GRV-SCL		
798441	1157647	798441		extremely gravelly coarse sandy loam	GRX-COSL		
798441	1157647	798441		very gravelly loamy coarse sand	GRV-LCOS		
798484	1157648	798484		sandy loam	SL SL	SCL	0.06
798484		798484		sandy clay loam	SCL	302	0.00
798484		798484		gravelly coarse sandy toam	GR-COSL	-	
798484		798484	3551970		L L		
798484		798484		sandy loam	SL	SL	0.4
798484	1157650	798484		sandy loam	SL	- 35	0.4
798484		798484		sandy clay loam	SCL		
798484		798484		unweathered bedrock	UWB		
798393		798393	-	extremely gravelly fine sandy loam	GRX-FSL	GRV-L	0.25
798393		798393		very gravelly loam	GRV-L	OKV-L	0.20
798393	1157652	798393		clay loam	CL		
798393	1157652	798393			C		
798393	1157652	798393		cobbly clay	CB-C		
798393		798393		cobbly day	CB-C		
798393	1157652	798393		unweathered bedrock	UWB	 	
798393	1157653	798393		very channery clay loam	CNV-CL	С	0.04
798393		798393	3526131		CIVV-CL	<u> </u>	0.01
798393		798393		unweathered bedrock			
798509		798509		gravelly sandy loam	UWB	OD CI	0.4
798509	1157654	798509		gravelly sandy loam	GR-SL	GR-SL	0.4
798509		798509		unweathered bedrock	GR-SL UWB		
798509	1157655			sandy loam	SL	Ci Ci	0.4
798509	1157655	798509		sandy loam sandy loam		SL	0.4
798509	1157655	798509		sandy clay loam	SL SCL		
798509	1157655	798509		unweathered bedrock	UWB		
798498	1157658	798498		extremely cobbly clay loam	CBX-CL	CBX-C	0.04
798498	1157658	798498		extremely cobbly clay		CBX-C	0.01
798498	1157658	798498		weathered bedrock	CBX-C		
798498	1157658	798498		unweathered bedrock	WB		
798448		798448			UWB	00/100	0.00
798448				very gravelly sandy loam	GRV-SL	GRV-SCL	0.06
798448		798448		very gravelly sandy clay loam	GRV-SCL		
798448	1157659	798448		extremely gravelly sandy loam extremely gravelly sandy loam	GRX-SL		
798448		798448			GRX-SL		
798480		798480		extremely gravelly sandy loam	GRX-SL	CDV	0.05
798480	1157662	798480		extremely gravelly loam extremely cobbly loam	GRX-L	GRX-L	0.25
798480	1157662	798480			CBX-L	 	
798480	1157662			extremely cobbly silty clay loam	CBX-SICL		
798480	1157662	798480		extremely cobbly silty clay loam	CBX-SICL		
798425	1157664	798480 798425		unweathered bedrock	UWB		0.4
				sandy loam	SL.	SL	0.4
798425 798425	1157664	798425	3552017		L		<u></u>
l ———	1157664	798425	3552018		C		
798425	1157664	798425	3552020		SIC		
798425	1157664	798425		clay loam	CL CL	07.0	
798483	1157666	798483		very stony sandy loam	STV-SL	STV-SL	0.4
798483	1157666	798483		very cobbly sandy loam	CBV-SL		
798483	1157666	798483	3555903	very cobbly loam	CBV-L		

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
798483	1157666	798483		extremely cobbly sandy loam	CBX-SL		
798483	1157667	798483		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798483		798483		gravelly sandy loam	GR-SL		0.10
798483		798483		very gravelly sandy loam	GRV-SL	<u> </u>	
798483		798483		weathered bedrock	WB		
798381		798381		extremely flaggy sandy loam	FLX-SL	FLX-SL	0.4
798381		798381		channery fine sandy toam	CN-FSL	12.02	
798381	1161243	798381		extremely flaggy clay	FLX-C		
798381	1161243	798381		unweathered bedrock	UWB		
798409	1161253	798409	3417098		SIL	SIL	0.15
798409	1161253	798409			SIL	J	0.10
798508	1161258	798508		very gravelly loam	GRV-L	GR-L	0.25
798508	1161258	798508		gravelly loam	GR-L	- VI. 2	0.20
798508	1161258	798508		cobbly loam	CB-L		
798508	1161258	798508		cemented	CEM		
798508		798508		indurated	IND		
798508		798508		extremely gravelly loam	GRX-L	GR-L	0.25
798508		798508		gravelly loam	GR-L	OIV-E	0.20
798508	1161259	798508		gravelly loam	GR-L		
798508	1161259	798508		very gravelly loam	GRV-L		
798508	1161259	798508		gravelly loam	GR-L		
798508	1161259	798508		gravelly loam	GR-L		
798478	1161266	798478		very gravelly loam	GRV-L	GRV-L	0.25
798478	1161266	798478		very gravelly loam	GRV-L	GIV-L	0.20
798478	1161266	798478		very gravelly silt loam	GRV-SIL		
798478		798478		unweathered bedrock	UWB		
798482	1164098	798482		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798482	1164098	798482		very cobbly sandy loam	CBV-SL	CBV-SL	0.10
798482	1164098	798482		very gravelly sandy loam	GRV-SL		
798482	1164098	798482		weathered bedrock	WB		
798482	1165469	798482		very stony sandy loam	STV-SL	STV-SL	0.4
798482	1165469	798482		very cobbly sandy loam	CBV-SL	01V-0L	0.4
798482	1165469	798482		very cobbly loam	CBV-SL		
798482		798482		extremely cobbly sandy loam	CBX-SL		
798386		798386		very cobbly sandy loam	CBV-SL	CBV-SL	0.15
798386		798386		very gravelly sandy loam	GRV-SL	ODV-OL	0.10
798386		798386		weathered bedrock	WB		
798386		798386		unweathered bedrock	UWB	· · · ·	
798423	1168646	798423		extremely gravelly sand	GRX-S	GRX-S	4.6
798401	1168647	798401		extremely gravelly loamy sand	GRX-LS	GRX-LS	1.2
798401		798401		extremely gravelly sand	GRX-S	0,00-20	1.4
798492		798492	3455096		L	SIL	0.15
798492	1169176	798492	3892514		SIL		0.10
798492	1169176	798492	3892510	·	SIL	 	
798492	1169176	798492	3455097		SIL		
798492	1169177	798492	3455122		L	SIL	0.15
798492	1169177	798492	3455123		SIL	JIL I	0.10
798363	1178731	798363		extremely gravelly sandy loam	GRX-SL	CRY SI	0.4
798363	1178731	798363		gravelly sandy loam	GR-SL	GRX-SL	V.4
798363	1178731	798363		extremely gravelly loamy sand	GRX-LS		
887667	1183959	887667	3572966			 	0.25
301001	1100000	001001	0012800	IOam	L	Ł	0.25

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
887667	1183959	887667	3572967	clay	С		70.00.00
887667	1183959	887667	3681829		C		
887667	1183959	887667		sandy clay loam	SCL		
887667	1183959	887667	3572978		L		
887830	1183988	887830		very cobbly clay loam	CBV-CL	С	0.01
887830	1183988	887830	3573022		С	-	
887830	1183988	887830		very gravelly clay	GRV-C		
888383	1184044	888383		very gravelly loam	GRV-L	GRV-L	0.25
888383	1184044	888383	3632193	cobbly loam	CB-L		
888383	1184044	888383	3632195	unweathered bedrock	UWB		
889257	1184094	889257		gravelly sandy loam	GR-SL	L	0.25
889257	1184094	889257	3574303		L		
889257	1184094	889257		gravelly clay	GR-C		
889257	1184094	889257		weathered bedrock	WB		
889257	1184094	889257		unweathered bedrock	UWB		
798480	1184631	798480	3576542	extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
798480	1184631	798480	-	extremely gravelly sandy loam	GRX-SL	-2-, 22	
798480	1184631	798480		extremely gravelly sandy loam	GRX-SL		
798480	1184631	798480		unweathered bedrock	UWB	-	
887441	1200003	887441		cobbly loam	CB-L	CB-L	0.25
887441	1200003	887441		gravelly loam	GR-L	05.2	0.20
887441	1200003	887441		gravelly loam	GR-L		
887441	1200003	887441		indurated	IND		
887441	1200003	887441		extremely gravelly sand	GRX-S		
798379	1200008	798379		very cobbly loam	CBV-L	CL	0.04
798379	1200008	798379		clay loam	CL		0.01
798379		798379	3629256		C		
798379		798379		unweathered bedrock	UWB		
798379	1200009	798379		very cobbly silty clay loam	CBV-SICL	CB-SIC	0.02
798379	1200009	798379		cobbly silty clay	CB-SIC		0.02
798379	1200009	798379	3880142		С		
798379	1200009	798379	3629260		C		
798379	1200009	798379		clay loam	CL		
798379	1200009	798379		unweathered bedrock	UWB		
798427		798427			L	L	0.25
798427	1200154	798427	3880002		C	-	
798427	1200154	798427	3629653		C		
798427	1200154	798427		gravelly clay loam	GR-CL		
798427	1200154	798427		weathered bedrock	WB		
798427	1200154	798427		unweathered bedrock	UWB		
798427	1200155	798427		very gravelly loam	GRV-L	GRV-L	0.25
798427	1200155	798427		very gravelly sandy loam	GRV-SL		
798427	1200155	798427		weathered bedrock	WB		
798427	1200155	798427		unweathered bedrock	UWB		
798507	1200156	798507		extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
798507	1200156	798507		very gravelly sandy clay loam	GRV-SCL		
798507	1200156	798507		weathered bedrock	WB		
798507	1200157	798507		gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
798507	1200157	798507		very gravelly sandy loam	GRV-SL		
798507	1200157	798507		weathered bedrock	WB	-	
798507	1200157	798507		unweathered bedrock	UWB		

col	key	ch	key	Soil Texture		Confining layer	XKSAT
798377	1200159	798377	3629679	very cobbly sandy clay loam	CBV-SCL	С	0.01
798377	1200159	798377	3880139		С		
798377	1200159	798377	3629680	clay	С		
798377	1200159	798377	3629681	weathered bedrock	WB		
798377	1200159	798377	3629682	unweathered bedrock	UWB		
887442	1200165	887442	3943887	sandy loam	ŞL	SCL	0.06
887442	1200165	887442	3629687	sandy clay loam	SCL		
887442	1200165	887442	3629688	coarse sandy loam	COSL		
798380	1200166	798380	3629697	very cobbly loam	CBV-L	CL	0.04
798380	1200166	798380	3629698	clay loam	CL		
798380	1200166	798380	3629699	clay	С		
798380	1200166	798380	3629700	unweathered bedrock	UWB		
888382	1200974	888382	3632196	very gravelly loam	GRV-L	GRV-L	0.25
888382	1200974	888382	3632197	cobbly loam	CB-L		
888382	1200974	888382	3632198	unweathered bedrock	UWB		
888382	1200976	888382	3632990	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
888382	1200976	888382		gravelly sandy loam	GR-SL		
888382	1200976	888382		weathered bedrock	WB		
888382	1200976	888382	3633014	unweathered bedrock	ŲWB		
890226	1201315	890226	3889562	loam	L	L	0.25
890226	1201315	890226	3889565	loam	L		
890226	1201315	890226	3889566	loam	L		
890226	1201319	890226	3963322	sandy loam	SL	SL	0.4
890226	1201319	890226		sandy loam	SL		
890226	1201319	890226		sandy loam	SL		
890226	1201319	890226	3633142	gravelly sandy loam	GR-SL		
890226	1201319	890226		gravelly sandy loam	GR-SL		
890226	1201319	890226		gravelly loamy sand	GR-LS		
1146330	1216880	1146330		silty clay loam	SICL	SICL	0.04
1146330	1216880	1146330	3688869	silty clay loam	SICL		
1146330	1216880	1146330	3762864	silt loam	SIL		
1146330	1216880	1146330	3688867	silfy clay loam	SICL		
1147394	1220218	1147394		extremely gravelly silt loam	GRX-SIL	GRX-SIL	0.15
1147394	1220218	1147394		gravelly loam	GR-L	i	
1147394	1220218	1147394		very gravelly loam	GRV-L		
1147394	1220218	1147394		extremely gravelly loamy sand	GRX-LS		
1147394				very gravelly sandy loam	GRV-SL		
1147394				very gravelly loamy sand	GRV-LS		
1147394	1220219			very cobbly sandy loam	CBV-SL	CBV-SL	0.15
1147394	1220219			very gravelly sandy loam	GRV-SL		-
1147394				very cobbly loamy sand	CBV-LS		
1147394				very gravelly loamy sand	GRV-LS		
1147394	1220219			very gravelly sand	GRV-S	· ·	
1147387	1220228	1147387		gravelly sandy loam	GR-SL	SL.	0.4
1147387	1220228			sandy loam	SL		
1147387	1220228			gravelly sandy loam	GR-SL		
1147387	1220228			gravelly sandy loam	GR-SL		
1147387	1220228			gravelly coarse sandy loam	GR-COSL		
	· · · · · · · · · · · · · · · · · · ·						
1147387	1220228	11473871	36993361	very gravelly loamy sand	I GRV-IS I	1	
1147387 1147387	1220228 1220229	1147387 1147387		very gravelly loamy sand gravelly sandy loam	GRV-LS GR-SL	GR-SL	0.4

col	сеу	chl	key	Soil Texture		Confining layer	XKSAT
1147387	1220229	1147387	3699339	sandy loam	SL		
1147387	1220229	1147387		extremely gravelly loamy sand	GRX-LS		
1147387	1220229	1147387		very gravelly loamy coarse sand	GRV-LCOS		
1147386	1220230	1147386		gravelly loamy sand	GR-LS	SL	0.4
1147386	1220230	1147386		sandy loam	SL		
1147386	1220230	1147386		sandy loam	SL		
1147386	1220230	1147386		sandy loam	SL		
1147386	1220230	1147386	3699344	gravelly sandy loam	GR-SL		
1147386	1220230	1147386	3702338	very gravelly sandy loam	GRV-SL		
1147386	1220230	1147386		very gravelly sandy loam	GRV-SL		·····
1147385	1220231	1147385		gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
1147385	1220231	1147385	3699347	very gravelly sandy loam	GRV-SL		
1147385	1220231	1147385	3699348	weathered bedrock	WB	<u> </u>	
1147385	1220231	1147385	3699349	unweathered bedrock	UWB		
1147383	1220233	1147383	3699355	extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
1147383	1220233	1147383		very gravelly sandy clay loam	GRV-SCL		
1147383	1220233	1147383		weathered bedrock	WB		
1147383	1220234	1147383	3699358	very gravelly sandy loam	GRV-SL	sc	0.02
1147383	1220234	1147383		sandy clay	SC		
1147383	1220234	1147383	3699359	sandy clay	sc		
1147383	1220234	1147383	3699360	gravelly sandy clay	GR-SC		
1147383	1220234	1147383		weathered bedrock	WB		
1147383	1220234	1147383	3699362	unweathered bedrock	UWB		
1147381	1220244	1147381	3699407	very cobbly loam	CBV-L	CBV-L	0.25
1147381	1220244	1147381	3699408	extremely gravelly loam	GRX-L	· i	-
1147381	1220244	1147381	3699409	indurated	IND		
1147381	1220244	1147381	3699410	unweathered bedrock	UWB		
1147380	1220245	1147380	3699411	very gravelly loarny sand	GRV-LS	GRV-SCL	0.06
1147380	1220245	1147380	3699412	very gravelly sandy clay loam	GRV-SCL		
1147380	1220245	1147380	3807749	gravelly clay	GR-C		
1147380	1220245	1147380	3699414	clay	С		
1147380	1220245	1147380	3699415	gravelly sandy clay loam	GR-SCL		
1147380	1220245	1147380	3699416	gravelly loarny sand	GR-LS		
1147379	1220246	1147379	3699417	gravelly loamy sand	GR-LS	SCL	0.06
1147379	1220246	1147379	3699418	sandy clay loam	SCL		
1147379	1220246	1147379	3699419	sandy clay	SC		
1147379	1220246	1147379	3699420	gravelly sandy clay loam	GR-SCL		
1147379	1220246	1147379		gravelly loamy sand	GR-LS		
1147377	1220248	1147377	3699427	silty clay loam	SICL	SR- SIC	0.02
1147377	1220248	1147377	3892605	stratified silty clay	SR-SIC		
1147377	1220248	1147377	3892597	silt loam	SIL		
1147377	1220248	1147377	3699428	stratified silty clay	SR- SIC		
1147377	1220248	1147377	3892598	silty clay loam	SICL		
1147377	1220248	1147377		fine sand	F\$		
1147388	1221255	1147388		very gravelly loam	GRV-L	GRV-L	0.25
1147388	1221255	1147388	3702094	very gravelly sandy loam	GRV-SL		
1147388	1221255	1147388	3702095	very gravelly sandy loam	GRV-SL		
1147388	1221255	1147388	3702096	extremely gravelly sandy loam	GRX-SL		
1147388	1221255	1147388	3702097	very gravelly loamy sand	GRV-LS		
887096	1273322	887096	3900357	very gravelly loam	GRV-L	GRV-L	0.25
887096	1273322	887096	3900358	very gravelly loam	GRV-L		

col	сеу	chl	key	Soil Texture	1	Confining layer	XKSAT
887096	1273322	887096	3900359	very gravelly clay loam	GRV-CL		
887096		887096		very gravelly loam	GRV-L		
887096			3900361		IND		
887830	1273335	887830		very gravelly loam	GRV-L	GRV-L	0.25
887830	1273335	887830		very gravelly toam	GRV-L		
887830		887830		very gravelly clay loam	GRV-CL		
887830	1273335	887830		very gravelly loam	GRV-L		
887830	1273335	887830		indurated	IND		
888381	1273339	888381	3938680	gravelly sandy clay loam	GR-SCL	GR-SCL	0.04
888381	1273339	888381		gravelly sandy clay loam	GR-SCL	-	
888381	1273339	888381		clay loam	CL		<u>.</u>
888381	1273339	888381		very gravelly sandy loam	GRV-SL		
888381	1273339	888381		extremely gravelly loarny coarse sand	GRX-LCOS		
798389	1273352	798389		gravelly sandy loam	GR-SL	GR-SL	0.4
798389	1273352	798389		gravelly sandy loam	GR-SL		
798389	1273352	798389		sandy loam	SL	-	
798389	1273352	798389		extremely gravelly loarny sand	GRX-LS		
798389		798389		very gravelly loamy coarse sand	GRV-LCOS		
798389	1273380	798389		sandy loam	SL.	SL	0.4
798389	1273380	798389	-	loamy sand	LS		0.4
798389		798389		stratified loamy sand	SR-LS		
798389		798389		gravelly loamy sand	GR-LS		
798432	1273399	798432		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798432	1273399	798432		very gravelly sandy loam	GRV-SL	OIOC-OL	0.7
798432	1273399	798432		unweathered bedrock	UWB		
798426	1273433	798426		extremely cobbly loam	CBX-L	CBX-L	0.25
798426	1273433	798426		very gravelly loam	GRV-L	CBA-L	0.23
798426	1273433	798426		unweathered bedrock	UWB		
798501	1273510	798501		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798501	1273510	798501		very gravelly sandy loam	GRV-SL	OIOC-OL	0.4
798501	1273510	798501		unweathered bedrock	UWB		
798499	1273562	798499		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798499	1273562	798499		very gravelly sandy loam	GRV-SL	GRX-SL	0.4
798499		798499		unweathered bedrock	UWB		
798489	1273573	798489		extremely stony sandy loam	STX-SL	STX-SL	0.4
	1273573	798489		extremely gravelly sandy loam		31A-3L	0.4
798489	1273573	798489		indurated	GRX-SL IND		
798489	1273573	798489		unweathered bedrock	UWB	 	
798447	1273582	798447		gravelly sandy loam		CD et	0.4
798447	1273582	798447		gravelly sandy loam	GR-SL	GR-SL	0.4
798447	1273582	798447		gravelly sandy loam	GR-SL		
798447	1273582	798447		gravelly loam	GR-SL		
798447	1273582				GR-L	· · · ·	
798447	1273562	798447 798447	3902543		L CR CL	CDI	0.05
798447 798447	1273668	798447		gravelly sandy loam	GR-SL	GR-L	0.25
798447				gravelly loam	GR-L		
	1273668	798447		cemented	CEM		
798447	1273668	798447		extremely gravelly sandy loam	GRX-SL	00.01	
798439	1273682	798439		extremely gravelly coarse sandy loam	GRX-COSL	GR-SL	0.4
798439	1273682	798439		gravelly sandy loam	GR-SL		
798439	1273682	798439		gravelly sandy clay loam	GR-SCL		
798439	1273682	798439	3902935	gravelly clay loam	GR-CL		

col	кеу	chi	key	Soil Texture		Confining layer	XKSAT
798439	1273682	798439	3902936	fine sandy loam	FSL	<u> </u>	
798439	1273682	798439		sandy loam	SL		
798439	1273683	798439		extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
798439	1273683	798439		very gravelly fine sandy loam	GRV-FSL		
798439	1273683	798439		extremely gravelly sandy loam	GRX-SL		
798439	1273683	798439		indurated	IND		
798439	1273683	798439	3902966	extremely gravelly coarse sand	GRX-COS		
798433	1273791	798433		extremely cobbly loam	CBX-L	CBV-CL	0.04
798433	1273791	798433		very cobbly clay loam	CBV-CL		
798433	1273791	798433	3903773	very cobbly clay	CBV-C		
798433	1273791	798433	3903774	weathered bedrock	WB		
798433	1273791	798433	3903775	unweathered bedrock	UWB		
798408	1273831	798408	3903929	silt loam	SIL	SIL	0.15
798408	1273831	798408	3903930	silt loam	SIL		
798408	1273831	798408	3903931	silt loam	SIL		
798408	1273831	798408	3903932	silt loam	SIL		
798408	1273831	798408	3903933	clay loam	CL		
798408	1273831	798408	3903934	loam	L		
798410	1273858	798410	3903989	gravelly loam	GR-L	L	0.25
798410	1273858	798410	3903990	loam	L		
798410	1273858	798410	3903991	loam	L		
798410	1273858	798410	3903992	clay loam	CL		
798410	1273858	798410	3903993	clay loam	CL		
798410	1273858	798410	3903994	loam	L		
798410	1273858	798410	3903995	loam	L		
798410	1273858	798410	3903996	day	С		
1398223	1282243	1398223	3941191	very gravelly sandy loam	GRV-SL	GRV-L	0.25
1398223	1282243	1398223	3941192	very gravelly loam	GRV-L		
1398223	1282243	1398223	3941193	unweathered bedrock	UWB		
1398240	1282259	1398240	3941437	gravelly loamy sand	GR-LS	GR-SL	0.4
1398240	1282259	1398240	3941438	gravelly sandy loam	GR-SL		
1398240	1282259	1398240	3941439	gravelly sandy clay	GR-SC		
1398240	1282259	1398240	39414 4 0	gravelly sandy clay loam	GR-SCL		
1398240	1282259	1398240		very gravelly sand	GRV-S		
1398242	1282303	1398242	3941590	very stony loam	STV-L	STV-L	0.25
1398242			3941591	very gravelly loam	GRV-L		
1398242		1398242		unweathered bedrock	UWB		
1389782		1389782	-	extremely gravelly loam	GRX-L	GRX-L	0.25
1389782	1282307	1389782		very gravelly loam	GRV-L		
1389782	1282307	1389782	3941680	weathered bedrock	WB		
1389782		1389782		unweathered bedrock	UWB		
1398243		1398243		gravelly sandy loam	GR-SL	GR-L	0.25
1398243	1284792	1398243		gravelly loam	GR-L		
1398243	1284792	1398243		gravelly loam	GR-L		
1398243	1284792	1398243		indurated	IND		
1398243	1284792	1398243		extremely gravelly sand	GRX-S		
1398244	1286606	1398244		gravelly sandy loam	GR-SL	L	0.25
1398244					L		
1398244	1286606			indurated	IND		
1398244	1286610			sandy loam	SL	SL	0.4
1398244	1286610	1398244	3943898	sandy loam	SL]	

col	кеу	chl	key	Soil Texture		Confining layer	XKSAT
1398244	1286610	1398244		sandy clay loam	SCL	Comming tayor	7410711
1398244	1286610			coarse sandy loam	COSL		
1398244				sandy loam	SL	SL	0.4
1398244				sandy loam	SL	Ü	0.1
1398244	1286615			gravelly sandy loam	GR-SL		
1398244	1286615			gravelly sandy loam	GR-SL		
1398244				gravelly sandy loam	GR-SL		
1398244		1398244		extremely gravelly sandy loam	GRX-SL		
1389788				gravelly sandy loam	GR-SL	L.	0.25
1389788	1291889				L		
1389788				gravelly clay	GR-C		
1389788				weathered bedrock	WB		
1389788	1291889	1389788	3963280	unweathered bedrock	UWB		
1389788	1291893	1389788	•	extremely gravelly loam	GRX-L	GRX-L	0.25
1389788	1291893	1389788		very gravelly loam	GRV-L		
1389788		1389788		weathered bedrock	WB		
1389788	1291893	1389788		unweathered bedrock	UWB		
1400382	1292044	1400382	3947029	extremely cobbly loam	CBX-L	CBX-CL	0.04
1400382	1292044			extremely cobbly clay loam	CBX-CL		
1400382	1292044			extremely cobbly clay	CBX-C		
1400382	1292044	1400382		extremely flaggy clay	FLX-C		
1400382	1292044	1400382	3947038	unweathered bedrock	UWB		
1398220	1292380	1398220	3948226	very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1398220	1292380	1398220	3948227	very gravelly sandy clay loam	GRV-SCL		
1398220	1292380	1398220	3948228	very gravelly loam	GRV-L		
1398220	1292380	1398220	3948229	very gravelly sandy loam	GRV-SL		
1398220	1292396	1398220	3948254	very gravelly loarny sand	GRV-LS	GRV-SCL	0.06
1398220	1292396	1398220	3948255	very gravelly sandy clay loam	GRV-SCL		
1398220	1292396	1398220	3948256	very gravelly sandy loam	GRV-SL		
1398220	1292396	1398220	3948257	gravelly loamy sand	GR-LS		
1398220	1292396	1398220	3948258	gravelly loam	GR-L		
1398220	1292402	1398220	3948286	very gravelly sandy loam	GRV-SL	GRV-C	0.01
1398220	1292402	1398220	3948290	very gravelly clay	GRV-C		
1398220	1292402	1398220	3948287	very gravelly clay	GRV-C		
1398220	1292402	1398220	3948288	very gravelly sandy clay	GRV-SC		
1398220	1292402	1398220	3948289	very gravelly loam	GRV-L		
1398274	1292512	1398274	3963314	sandy loam	SL	SCL	0.06
1398274		1398274	3963313	sandy clay loam	SCL		
1398274	1292512	1398274	3963312	sandy clay loam	SCL		
1398274					L		
1398274	1292513			sandy loam	SL	SL	0.4
1398274				sandy loam	SL		
1398274				very gravelly sandy loam	GRV-SL		
1398275		1398275			L	С	0.01
1398275	1292554		3949258		С		
1398275	1292554	1398275	3949257	clay	С		
1398275			3949256		С		
1398275				cemented	CEM		
1398275	- 1			gravelly sandy loam	GR-SL	GR-SL	0.4
1398275	1292555			gravelly sandy loam	GR-SL		
1398275	1292555	1398275	3948995	very gravelly sandy loam	GRV-SL		

co	key	ch	key	Soil Texture		Confining layer	XKSAT
1398275	1292555			gravelly sandy loam	GR-SL	Comming rayor	AROAT
1398275				indurated	IND		
1398276				extremely gravelly loam	GRX-L	GRX-L	0.25
1398276				very gravelly fine sandy loam	GRV-FSL	OIOC-L	0.25
1398276				cemented	CEM		•
1398276				indurated	IND		
1398276	1292747	1398276		extremely gravelly sandy loam	GRX-SL	L	0.25
1398276	1292747		3949281		L		0.20
1398276		1398276		cobbly loam	CB-L		
1398276		1398276		The state of the s	IND		
1398276				very gravelly sandy loam	GRV-SL	GR-L	0.25
1398276		1398276		gravelly loam	GR-L	OK-L	0.20
1398276	1292748			very cobbly fine sandy loam	CBV-FSL		
1398276	1292748	1398276		very cobbly fine sandy loam	CBV-FSL		
1398276	1292748			cemented	CEM		
798388	1292759	798388		sandy loam	SL	SL	0.4
798388	1292759	798388		sandy loam	SL	JL	0.4
798388		798388		gravelly sandy clay loam	GR-SCL		
798388	1292759	798388		gravelly sandy loam	GR-SCL GR-SL		
798388	1292759	798388		very gravelly loamy sand	GR-SL GRV-LS		
798411	1292776	798411		very cobbly fine sandy loam	CBV-FSL	CB I	0.05
798411	1292776	798411		cobbly toam		CB-L	0.25
798411	1292776	798411	3949335		CB-L C		
798411	1292776	798411		cobbly clay			
798411	1292776	798411		unweathered bedrock	CB-C		
1146330	1297435	1146330		sandy loam	UWB	001	
1146330	1297435	1146330		sandy clay loam	SL	SCL	0.06
1146330	1297435	1146330		sandy clay loam sandy clay loam	SCL		
1146330	1297435	1146330	3963318		SCL		
1147390	1304641	1147390		gravelly sandy loam	L CD CI	00.1	
1147390	1304641	1147390		gravelly loam	GR-SL	GR-L	0.25
1147390	1304641	1147390		cemented	GR-L		
1147390	1304641	1147390			CEM		<u>.</u>
889257	1312578	889257		extremely gravelly loarny coarse sand	GRX-LCOS		
889257		889257		sandy loam	SL	SCL	0.06
889257 889257				sandy clay loam	SCL		
	1312578	889257		coarse sandy loam	COSL	00.00	
1507873	1382903	1507873		gravelly sandy loam	GR-SL	GR-SL	0.4
1507873	1382903	1507873		gravelly sandy loam	GR-SL		
1507873	1382903	1507873		sandy loam	SL		
1507873	1382903	1507873		extremely gravelly loarny sand	GRX-LS		
	1382903	1507873		very gravelly toarny coarse sand	GRV-LCOS		
1507873		1507873		sandy loam	SL	SL	0.4
1507873	1382904	1507873		loamy sand	LS		
1507873	1382904	1507873		stratified loarny sand	SR-LS		·
1507873	1382904	1507873		gravelly loamy sand	GR-LS		
1507884	1382906	1507884		extremely gravelly loamy sand	GRX-LS	GRX-LS	1.2
1507884	1382906	1507884		extremely gravelly loamy sand	GRX-LS		
1507884	1382906	1507884		extremely gravelly sand	GRX-\$	I	
1507892	1382908	1507892		extremely gravelly silt loam	GRX-SIL	GRX-SIL	0.15
1507892	1382908	1507892		gravelly loam	GR-L		
1507892	1382908	1507892	4323716	very gravelly loam	GRV-L		

1507982 1382008 1507892 432371 extremely gravully loamy sand GRX-LS	col	сеу	ch	key	Soil Texture		Confining layer	XKSAT
	 					CDVIC	Comming layer	VIVOVI
1507802 1382908 1507802 4322719 very cobbly sandy loam GRV-LS	-							
1597802 1382909 1507892 4323721 very corbolly sandy loam GRV-SL GRV-SL 1507802 1382909 1507892 4323722 very gravelly sandy loam GRV-SL					· · · · · · · · · · · · · · · · · · ·			
1507/962 1382900 1507/982 4323722 vary gravelly sandy loam GRV-SL							CDV CI	0.46
							CBV-SL	0.10
1507982 382909 1507882 4323724 very gravelly loamy sand GRV-LS				1				
1507962 1382909 1507962 4323720 very gravelly sand								
1507905 1382910 1507906 4339821 sandy loam Sc. Sc. C.								
1507906 1382910 1507906 4339822 sandy clay loam COSL							60	0.06
1507906 1382910 1507906 4339823 coarse sandy loam COSL C	I———						SCL	0.00
1507912 1382913 1507912 4323732 very cobbby sandy clay loam								
1507912 1382913 1507912 4323736 clay C	I							0.04
1507912 1382913 1507912 4323733 day								0.01
1507912 1382913 1507912 4323734 weathered bedrock								
1507912 1382913 1507912 4323735 unweathered bedrock								
1507915 1382915 1507915 4323737 gravelly sandy loam GR-SL GR-L								
1507915 1382915 1507915 4323738 gravelly loam GR-L GEM G							05.	0.05
1507915 1382915 1507915 4323730 extremely gravelly loamy coarse sand GRX-LCOS						 	GK-L	0.25
1507915 1382915 1507915 4323741 very cobbly loam	\vdash							
1507917 1382916 1507917 4323742 day loam CL CL 0.04								
1507917 1382916 1507917 4323742 clay loam								
1507917 1382916 1507917 4323743 clay							CL	0.04
1507917 1382916 1507917 4323744 unweathered bedrock UWB CBV-SICL CB-SIC 0.02 1507917 1382917 1507917 4323745 very cobbly silty clay loam CBV-SICL CB-SIC 0.02 1507917 1382917 1507917 4323750 clay C C 1507917 1382917 1507917 4323750 clay C C 1507917 1382917 1507917 4323747 clay C C 1507917 1382917 1507917 4323748 clay loam CL UWB 1507918 1382918 1507918 4323751 very cobbly loam CBV-L CL 0.04 1507918 1382918 1507918 4323752 clay loam CL C 1507918 1382918 1507918 4323753 clay C C 1507918 1382918 1507918 4323753 clay C C 1507918 1382918 1507918 4323753 clay C C 1507919 1382920 1507921 4323754 unweathered bedrock UWB C C 1507911 1382920 1507921 4323755 clay C C 1507921 1382920 1507921 4323756 clay C C 1507921 1382920 1507921 4323756 clay C C 1507921 1382920 1507921 4323756 clay C C 1507921 1382920 1507921 4323750 gravelly clay loam GR-CL 1507921 1382920 1507921 4323750 gravelly clay loam GR-CL 1507921 1382920 1507921 4323750 gravelly clay loam GR-CL 1507921 1382921 1507921 4323750 unweathered bedrock UWB C C 1507921 1382921 1507921 4323750 unweathered bedrock UWB C C C C 1507921 1382921 1507921 4323760 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323763 unweathered bedrock UWB C C C C C C C C C								
1507917 1382917 1507917 4323745 very cobbly silty clay loam CBV-SICL CB-SIC								
1507917 1382917 1507917 4323746 cobbly silty clay CB-SIC 1507917 1382917 1507917 4323747 clay C								
1507917 1382917 1507917 4323747 day							CB-SIC	0.02
1507917 1382917 1507917 4323747 clay C								
1507917 1382917 1507917 4323748 clay loam								
1507917 1382917 1507917 4323749 unweathered bedrock UWB 1507918 1382918 1507918 4323751 very cobbly loam CL CL 0.04 1507918 1382918 1507918 4323752 clay loam CL CL CL CL CL CL CL C				-				
1507918 1382918 1507918 4323751 very cobbly loam CBV-L CL 0.04 1507918 1382918 1507918 4323752 clay loam CL 1507918 1382918 1507918 4323753 clay C 1507918 1382918 1507918 4323754 unweathered bedrock UWB 1507921 1382920 1507921 4323755 loam L L 0.25 1507921 1382920 1507921 4323759 clay C 1507921 1382920 1507921 4323756 clay C 1507921 1382920 1507921 4323760 gravelly clay loam GR-CL 1507921 1382920 1507921 4323758 unweathered bedrock WB 1507921 1382920 1507921 4323758 unweathered bedrock UWB 1507921 1382921 1507921 4323762 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL 1507921 1382921 1507921 4323763 weathered bedrock WB 1507921 1382921 1507921 4323763 weathered bedrock UWB 1507921 1382921 1507921 4323763 weathered bedrock WB 1507921 1382921 1507921 4323763 weathered bedrock WB 1507921 1382921 1507921 4323763 weathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323772 sandy loam GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323775 very gravelly loamy sand GR-COSL								
1507918 1382918 1507918 4323752 clay loam								
1507918 1382918 1507918 4323753 clay C 1507918 1382918 1507918 4323754 unweathered bedrock UWB 1507921 1382920 1507921 4323755 loam L L L 0.25 1507921 1382920 1507921 4323759 clay C C 1507921 1382920 1507921 4323750 gravelly clay loam GR-CL GR-CL 1507921 1382920 1507921 4323757 weathered bedrock WB WB 1507921 1382920 1507921 4323758 unweathered bedrock UWB UWB 1507921 4323751 very gravelly loam GRV-L GRV-L QRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL WB 1507921 1382921 1507921 4323763 weathered bedrock WB WB 1507921 1382924 1507928 4323773 gravelly sandy loam GR-SL SL 0.4	 	-					CL	0.04
1507918 1382918 1507918 4323754 unweathered bedrock UWB 1507921 1382920 1507921 4323755 loam L L L 0.25 1507921 1382920 1507921 4323759 clay C 1507921 1382920 1507921 4323750 gravelly clay loam GR-CL WB 1507921 1382920 1507921 4323757 weathered bedrock WB WB 1507921 1382920 1507921 4323758 unweathered bedrock UWB UWB 1507921 4323751 unweathered bedrock UWB UWB 1507921 4323761 very gravelly loam GRV-L GRV-L QRV-L Q								
1507921 1382920 1507921 4323755 loam L L 0.25 1507921 1382920 1507921 4323759 clay C								
1507921 1382920 1507921 4323759 clay C 1507921 1382920 1507921 4323756 clay C 1507921 1382920 1507921 4323760 gravelly clay loam GR-CL 1507921 1382920 1507921 4323757 weathered bedrock WB 1507921 1382920 1507921 4323758 unweathered bedrock UWB 1507921 1382921 1507921 4323761 very gravelly loam GRV-L GRV-L 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL 1507921 1382921 1507921 4323763 weathered bedrock WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL GR-SL 1507928								
1507921 1382920 1507921 4323756 day C 1507921 1382920 1507921 4323760 gravelly clay loam GR-CL 1507921 1382920 1507921 4323757 weathered bedrock WB 1507921 1382920 1507921 4323758 unweathered bedrock UWB 1507921 1382921 1507921 4323761 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL WB 1507921 1382921 1507921 4323763 weathered bedrock WB WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB WB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323772 sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL GR-COSL 1507928<							L	0.25
1507921 1382920 1507921 4323760 gravelly clay loam GR-CL 1507921 1382920 1507921 4323757 weathered bedrock UWB 1507921 1382920 1507921 4323758 unweathered bedrock UWB 1507921 1382921 1507921 4323761 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL WB 1507921 1382921 1507921 4323763 weathered bedrock WB WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL SL 1507928 1382924 1507928 4323774 gravelly sandy loam GR-SL GR-COSL 1507928 4323774 gravelly coarse sandy loam GR-COSL GR-COSL 6RV-LS GRV-LS 1507928 4323775 very gravelly								
1507921 1382920 1507921 4323757 weathered bedrock UWB 1507921 1382920 1507921 4323758 unweathered bedrock UWB 1507921 1382921 1507921 4323761 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL WB 1507921 1382921 1507921 4323763 weathered bedrock WB WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323772 gravelly sandy loam GR-SL GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GR-COSL						С		
1507921 1382920 1507921 4323758 unweathered bedrock UWB 1507921 1382921 1507921 4323761 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL WB 1507921 1382921 1507921 4323763 weathered bedrock WB WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB WB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly sandy loam GR-COSL 1507928 1382924 1507928 4323775 yery gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 yery gravelly loamy sand GR-COSL				4323760	gravelly clay loam	GR-CL		
1507921 1382921 1507921 4323761 very gravelly loam GRV-L GRV-L 0.25 1507921 1382921 1507921 4323762 very gravelly sandy loam GRV-SL US 1507921 1382921 1507921 4323763 weathered bedrock WB UWB 1507921 1382921 1507921 4323764 unweathered bedrock UWB UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS					weathered bedrock	WB		
1507921 1382921 1507921 4323762 very gravelly sandy foam GRV-SL 1507921 1382921 1507921 4323763 weathered bedrock WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 1507928 1382924 1507928 4323772 sandy loam GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly sandy loam GR-COSL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507921			4323758	unweathered bedrock	UWB		
1507921 1382921 1507921 4323763 weathered bedrock WB 1507921 1382921 1507921 4323764 unweathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323772 sandy loam SL 1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS			1507921			GRV-L	GRV-L	0.25
1507921 1382921 1507921 4323764 unweathered bedrock UWB 1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323772 sandy loam SL SL 1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL SR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-COSL GR-COSL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	-		1507921	4323762	very gravelly sandy foam	GRV-SL		
1507928 1382924 1507928 4323771 gravelly sandy loam GR-SL SL 0.4 1507928 1382924 1507928 4323772 sandy loam SL SL 1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-COSL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507921	1382921	1507921	4323763	weathered bedrock	WB		
1507928 1382924 1507928 4323772 sandy loam SL 1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507921	1382921	1507921	4323764	unweathered bedrock	UWB		
1507928 1382924 1507928 4323770 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507928	1382924	1507928	4323771	gravelly sandy loam	GR-SL	SL	0.4
1507928 1382924 1507928 4323773 gravelly sandy loam GR-SL 1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507928	1382924	1507928	4323772	sandy loam	SL		
1507928 1382924 1507928 4323774 gravelly coarse sandy loam GR-COSL 1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507928	1382924	1507928	4323770	gravelly sandy loam	GR-SL		
1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507928	1382924	1507928	4323773	gravelly sandy loam	GR-SL		
1507928 1382924 1507928 4323775 very gravelly loamy sand GRV-LS	1507928	1382924	1507928					
	1507928	1382924	1507928					
	1507928	1382925	1507928				GR-SL	0.4

col	key	ch	key	Soil Texture		Confining layer	XKSAT
1507928	1382925	1507928	4323777	gravelly sandy loam	GR-SL	g ., .	
1507928		1507928		sandy loam	SL		
1507928	1382925	1507928		extremely gravelly loamy sand	GRX-LS		
1507928	1382925	1507928		very gravelly loarny coarse sand	GRV-LCOS		
1507929	1382926	1507929		gravelly loamy sand	GR-LS	SL	0.4
1507929	1382926	1507929	4323782	sandy loam	SL		
1507929	1382926	1507929	4323781	sandy loam	SL		
1507929	1382926	1507929	4323785	sandy loam	SL		
1507929	1382926	1507929	4323786	gravelly sandy loam	GR-SL		
1507929	1382926	1507929	4323783	very gravelly sandy loam	GRV-\$L		
1507929	1382926	1507929	4323787	very gravelly sandy loam	GRV-SL		
1507936	1382928	1507936	4323788	gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
1507936	1382928	1507936	4323789	very gravelly sandy loam	GRV-SL		
1507936	1382928	1507936	4323790	weathered bedrock	WB		
1507936	1382928	1507936	4323791	unweathered bedrock	UWB	:	
1507996	1382930	1507996	4323795	gravelly sandy loam	GR-SL	L	0.25
1507996	1382930	1507996			L		:
1507996	1382930	1507996	4323797	gravelly clay	GR-C		
1507996	1382930	1507996		weathered bedrock	WB		
1507996	1382930	1507996	4323799	unweathered bedrock	UWB		
1507996	1382932	1507996	4705139	extremely cobbly coarse sandy loam	CBX-COSL	CBX-COSL	0.4
1507996	1382932	1507996	4705140	gravelly coarse sandy foam	GR-COSL		
1507996	1382932	1507996	4705141	weathered bedrock	WB		
1507996	1382932	1507996	4705142	unweathered bedrock	UWB		
1507947	1382933	1507947	4323804	very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1507947	1382933	1507947	4323805	very gravelly sandy clay loam	GRV-SCL		
1507947	1382933	1507947	4323806	very gravelly loam	GRV-L		
1507947	1382933	1507947	4323807	very gravelly sandy loam	GRV-SL		
1507947	1382934	1507947	4323808	very gravelly loamy sand	GRV-L\$	GRV-SCL	0.06
1507947	1382934	1507947	4323809	very gravelly sandy clay loam	GRV-SCL		
1507947	1382934	1507947	4323810	very gravelly sandy loam	GRV-SL		
1507947	1382934	1507947	4323811	gravelly loamy sand	GR-LS		
1507947	1382934	1507947	4323812	gravelly loam	GR-L		
1507947	1382935	1507947	4323813	very gravelly sandy loam	GRV-SL	GRV-C	0.01
1507947	1382935	1507947	4323817	very gravelly clay	GRV-C		
1507947	1382935	1507947	4323814	very gravelly clay	GRV-C		
1507947	1382935	1507947	4323815	very gravelly sandy clay	GRV-SC		
1507947	1382935	1507947	4323816	very gravelly loam	GRV-L		
1508001	1382937	1508001	4323818	gravelly sandy loam	GR-SL	GRV-SCL	0.06
1508001	1382937	1508001	4323819	very gravelly sandy clay loam	GRV-SCL		
1508001	1382937	1508001	4323820	weathered bedrock	WB		
1508001	1382937	1508001	4323821	weathered bedrock	WB		
1508002	1382938	1508002	4323823	very gravelly sandy loam	GRV-SL	GRV-SL	0.4
1508002	1382938	1508002	4323822	extremely cobbly sandy loam	CBX-SL		
1508002	1382938	1508002	4323825	weathered bedrock	WB		
1508002	1382938	1508002	4323824	unweathered bedrock	UWB		
1508002	1382939	1508002	4323828	graveliy sandy loam	GR-SL	GR-SL	0.4
1508002	1382939	1508002	4323827	extremely gravelly sandy loam	GRX-SL		
1508002	1382939	1508002	4323826	very cobbly sandy clay loam	CBV-SCL		
1508002	1382939	1508002	4323829	weathered bedrock	WB		
1507954	1382940	1507954	4323830	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4

col	сеу	ch	key	Soil Texture		Confining layer	XKSAT
1507954				very gravelly sandy loam	GRV-SL	Continuing layer	AROAT
1507954				unweathered bedrock	UWB		
1507967	1382944	1507967		very gravelly sandy loam	GRV-SL	GRV-L	0.25
1507967	1382944	1507967		very gravelly loam	GRV-L	GIV-L	0.20
1507967	1382944			unweathered bedrock	UWB		
1507969				extremely cobbly sandy loam	CBX-SL	CBV SCI	0.06
1507969					GRV-SCL	GRV-SCL	0.06
1507969				very gravelly sandy clay loam weathered bedrock	WB		
1507969	1382946	-				00	0.00
1507969	1382946	-		very gravelly sandy loam	GRV-SL	sc	0.02
1507969				sandy clay	SC		
	1382946			sandy clay	SC		
1507969				gravelly sandy clay	GR-SC		
1507969	1382946			weathered bedrock	WB		
1507969				unweathered bedrock	UWB	ļļ.	
1507970				extremely cobbly sandy loam	CBX-SL	GRV-SCL	0.06
1507970				very gravelly sandy clay loam	GRV-SCL		
1507970				weathered bedrock	WB		
1507970	1382949	1507970	4323851	gravelly coarse sandy loam	GR-COSL	GR-COSL	0.4
1507970		1507970		very gravelly sandy loam	GRV-SL		
1507970		1507970	4323853	weathered bedrock	WB		
1507970	1382949	1507970	4323854	unweathered bedrock	UWB		
1507979	1382951	1507979	4323855	extremely gravelly sandy loam	GRX-SL	GRX-SL	0.4
1507979	1382951	1507979	4323856	very gravelly sandy loam	GRV-SL		
1507979	1382951	1507979	4323857	unweathered bedrock	UWB		
1507984	1382952	1507984	4323858	very cobbly loam	CBV-L	CBV-L	0.25
1507984	1382952	1507984	4323859	extremely gravelly loam	GRX-L		
1507984	1382952	1507984	4323860	indurated	IND		
1507984	1382952	1507984	4323861	unweathered bedrock	UWB		
1507999	1382953	1507999	4323862	extremely stony loam	STX-L	CBV-SIL	0.15
1507999	1382953	1507999	4323864	very cobbly silt loam	CBV-SIL		
1507999	1382953	1507999	4323863	very cobbly loam	CBV-L		
1507999	1382953	1507999		very cobbly sandy loam	CBV-SL		
1507999	1382954	1507999		extremely cobbly sandy loam	CBX-SL	CBX-SL	0.4
1507999	1382954	1507999	4323867	very cobbly sandy loam	CBV-SL		
1507999	1382954	1507999		indurated	IND		
1507999	1382954	1507999		unweathered bedrock	UWB		
1508000	1382955	1508000		sandy loam	SL	SCL	0.06
1508000	1382955	1508000		sandy clay loam	SCL		
1508000	1382955	1508000		gravelly coarse sandy loam	GR-COSL		
1508000		1508000			L		
1508000		1508000		sandy loam	SL.	SL	0.4
1508000		1508000		sandy loam	SL	<u> </u>	
1508000	1382957	1508000		sandy clay loam	SCL		
1508000	1382957	1508000		unweathered bedrock	UWB		
1507994	1382959	1507994		gravelly loamy sand	GR-LS	SCL	0.06
1507994	1382959	1507994		sandy clay loam	SCL	- OOL	0.00
1507994	1382959	1507994		sandy clay loant	SC		
1507994	1382959	1507994		gravelly sandy clay loam			
1507994	1382959	1507994		gravelly loamy sand	GR-SCL	 	
1507994					GR-LS	CDV COL	0.00
	1382960	1507993		very gravelly loamy sand	GRV-LS	GRV-SCL	0.06
1507993	1382960	1507993	4323890	very gravelly sandy clay loam	GRV-SCL	I	

col	кеу	ch	key	Soil Texture		Confining layer	XKSAT
1507993	1382960	1507993	4323888	gravelly clay	GR-C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1507993	1382960	1507993	4323891	clay	С		
1507993	1382960	1507993	4323892	gravelly sandy clay loam	GR-SCL		
1507993	1382960	1507993	4323893	gravelly loamy sand	GR-LS		
1507991	1382961	1507991	4323894	very gravelly loam	GRV-L	GRV-L	0.25
1507991	1382961	1507991	4323895	very gravelly loam	GRV-L		
1507991	1382961	1507991	4323896	veғy gravelly clay loam	GRV-CL		
1507991	1382961	1507991	4323897	very gravelly loam	GRV-L		
1507991	1382961	1507991	4323898	indurated	IND		
1507998	1382962	1507998	4323899	silty clay loam	SICL	SR- SIC	0.02
1507998	1382962	1507998	4323904	stratified silty clay	SR- SIC		
1507998	1382962	1507998	4323902	silt loam	SIL		
1507998	1382962	1507998	4323900	stratified silty clay	SR- SIC		
1507998	1382962	1507998	4323903	silty clay loam	SICL		
1507998	1382962	1507998	4323901	fine sand	FS		<u></u>
1507924	1383019	1507924	4324149	very gravelly loam	GRV-L	GRV-L	0.25
1507924	1383019	1507924	4324150	very gravelly sandy loam	GRV-SL		
1507924	1383019	1507924	4324151	very gravelly sandy loam	GRV-SL		
1507924	1383019	1507924	4324152	extremely gravelly sandy loam	GRX-SL		
1507924	1383019	1507924	4324153	very gravelly loarny sand	GRV-LS		
1507988	1385997	1507988	4337017	gravelly loamy sand	GR-LS	GR-SL	0.4
1507988	1385997	1507988	4337018	gravelly sandy loam	GR-SL		
1507988	1385997	1507988	4337019	gravelly sandy clay	GR-SC		
1507988	1385997	1507988	4337020	gravelly sandy clay loam	GR-SCL		
1507988	1385997	1507988	4337021	very gravelly sand	GRV-S		
1507956	1393798	1507956	4373024	very stony loam	STV-L	STV-L	0.25
1507956	1393798	1507956	4373025	very gravelly loam	GRV-L		•
1507956	1393798	1507956	4373026	unweathered bedrock	UWB		
1507939	1393967	1507939	4374162	gravelly sandy loam	GR-SL	GR-SL	0.4
1507939	1393967	1507939	4374161	gravelly sandy loam	GR-SL		
1507939	1393967	1507939		very gravelly loamy coarse sand	GRV-LCOS		
1507939	1393967	1507939	4374163	gravelly sandy clay loam	GR-SCL	-	



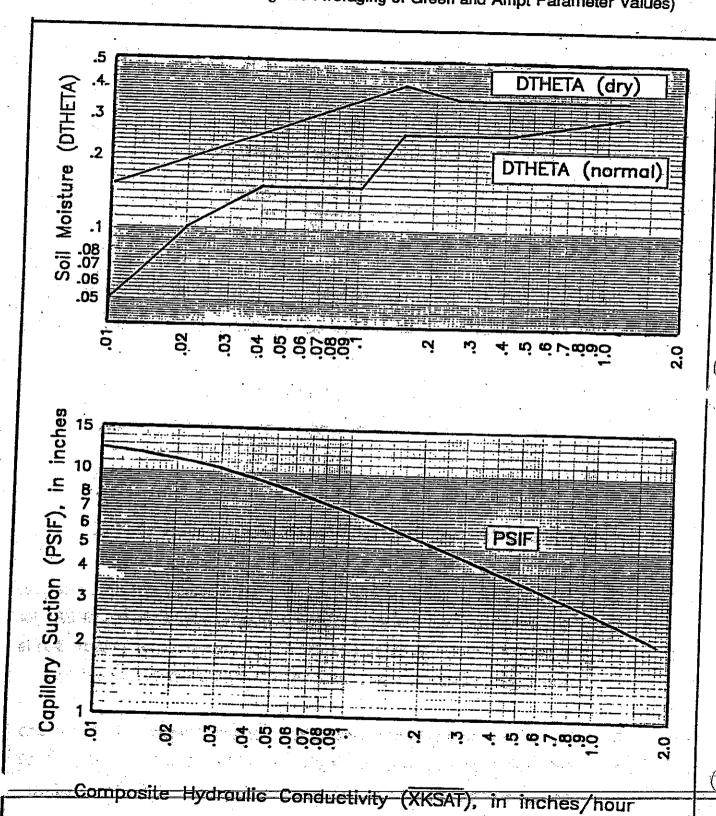
0.0215 598820.46 13MileWash-01 0.35 4.8 0.7827 21820460.19 13MileWash-02 0.39 5.8 1.5852 44191903.32 13MileWash-03 0.38 5.4 4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.27 0.16 0.20 0.26 0.17 0.18 0.23 0.21 0.16
0.7827 21820460.19 13MileWash-02 0.39 5.8 1.5852 44191903.32 13MileWash-03 0.38 5.4 4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.16 0.20 0.26 0.17 0.18 0.23 0.21
1.5852 44191903.32 13MileWash-03 0.38 5.4 4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.20 0.26 0.17 0.18 0.23 0.21
4.2919 119652267.53 13MileWash-04 0.35 4.9 1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.26 0.17 0.18 0.23 0.21
1.2028 33531280.91 13MileWashA-01 0.39 5.6 4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.17 0.18 0.23 0.21
4.8114 134135050.33 13MileWashA-02 0.38 5.5 0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.18 0.23 0.21
0.4188 11674517.76 13MileWashB-01 0.36 5.2 0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.23 0.21
0.0570 1590415.47 13MileWashB-02 0.37 5.4 0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.21
0.3592 10014036.65 13MileWashB-03 0.39 5.8 0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	
0.0449 1251457.27 13MileWashB-04 0.35 4.1 6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.16
6.4185 178938740.34 13MileWashB-05 0.37 5.4 0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	
0.5987 16692069.69 13MileWashB-1A-01 0.4 6.2 0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.38
0.1641 4573520.84 13MileWashB-1A-02 0.35 7	0.21
	0.15
0 1314 3664221 00 13MiloMachD 14 02 022 75	0.11
0.1314 3664221.00 13MileWashB-1A-03 0.32 7.5	0.09
0.0439 1222874.48 13MileWashB-1B-01 0.37 6.6	0.12
0.0675 1882302.92 13MileWashB-1B-02 0.35 7.2	0.10
0.1147 3198738.21 13MileWashB-1C-01 0.35 7	0.10
0.0593 1654372.26 13MileWashB-1C-02 0.36 5.2	0.22
0.0375 1046016.37 13MileWashC-01 0.35 4.2	0.37
1.7953 50050905.12 13MileWashC-02 0.39 5.8	0.16
1.1533 32152693.93 13MileWashC-03 0.39 5.8	0.17
5.3401 148873841.13 13MileWashC-04 0.35 4.5	0.30
13.8253 385428429.67 13MileWashCmisc-01 0.35 4.6	0.28
11.6593 325043962.49 13MileWashCmisc-02 0.35 5	0.24
0.9269 25841320.16 Cerbat-01 0.4 6.2	0.14
3.6691 102289951.81 Cerbat-02 0.38 5.5	0.18
10.0830 281098232.37 cerbat-03 0.36 5	0.23
0.5285 14734078.89 CerbatTrib1A-01 0.35 7.2	0.10
0.8467 23604562.69 CerbatTribA-02 0.39 5.8	0.17
0.0269 751192.67 SacTrib6-01 0.35 4.2	0.36
0.0516 1439773.07 SacTrib6-02 0.35 4.5	0.31
0.2335 6510759.79 SacTrib6-03 0.36 5.2	0.22
0.4200 11708838.00 SacTrib6-04 0.36 5	0.24
19.5342 544582702.21 SacTrib6-05 0.37 5.4	0.20
0.2913 8119810.41 SacTrib6C-01 0.305 7.9	0.08
0.1827 5092941.65 SacTrib6C-02 0.29 8.4	0.06
0.2074 5781644.19 SacTrib6C-03 0.305 7.9	0.08
0.2518 7020344.16 SacTrib6C-04 0.32 7.5	0.08
0.2913 8120158.58 Sactrib6D-01 0.27 8.2	0.06
0.4351 12130144.53 SacTrib6D-02 0.27 8.2	0.06
0.6352 17707406.05 SacTrib6misc-01 0.29 8.4	0.06
0.3570 9951908.11 13MileWashE-03 0.35 4.1	0.40
1.2132 33823072.41 MolyMosesA-02 0.35 4.9	0.25
3.8747 108020770.80 HolyMosesA-03 0.35 4.4	0.33
7.8524 218911672.67 HolyMosesA-04 0.39 5.8	0.17
4.2697 119031114.50 HolyMosesA-05 0.35 4.3	0.34
13.3273 371544655.60 HolyMosesA-07 0.35 4.4	0.31
1.1335 31599959.82 Offsite Diverted-01 0.36 5.2	0.23
0.1161 3237668.17 Offsite Diverted-02 0.37 5.3	0.21
4.8070 134011258.03 SacWashA-02 0.4 6.2	0.14
0.4226 11782476.84 SacWashA-03 0.4 6	0.15

Area (sq mi)	Area1	BASIN_TXT	Dtheta	PSIF	XKSAT
2.1252	59246948.06	SacWashA-04	0.35	7.2	0.10
3.2534	90699043.03	SacWashA-05	0.32	7.5	0.08
1.0804	30119664.05	SacWashA-06	0.39	6.4	0.13
9.8410	274352090.03	SacWashA-07	0.36	6.8	0.12
8.1490	227180971.21	HolyMosesA-06	0.4	6	0.15
5.1930	144771184.51	SacWashA08	0.305	7.9	0.07
8.2644	230397565.60	HolyMosesA-04	0.39	5.8	0.17
10.2545	285879402.73	SacWashA-09	0.37	6.6	0.13
2.7732	77312465.22	SacWashA-10	0.39	6.4	0.14
13.9298	388340569.95	SacWashA-11	0.305	7.9	0.07
18.2356	508380337.44	SacWashA-12	0.4	6	0.15
5.3076	147968686.67	SacWashB-01	0.39	6.4	0.14
10.3994	289918143.24	SacWashC-01	0.38	5.4	0.20
9.6297	268461945.80	SacWashC-02	0.35	4.9	0.26
14.1515	394520757.54	SacWashD-01	0.39	5.8	0.16
1.0617	29599748.90	13MileWashE-01	0.305	7.9	0.08
19.2803	537503459.73	HolyMosesA-08	0.4	6	0.16
2.0957	58425519.68	SacWashE-01	0.35	5	0.25
3.2959	91885234.73	HolyMosesA_01	0.35	4.1	0.39
4.4406	123797707.70	SacWashA_01	0.35	4.5	0.30
1.9345	53931988.07	13MileWashD_02	0.35	4.1	0.40

FIGURE 3-3

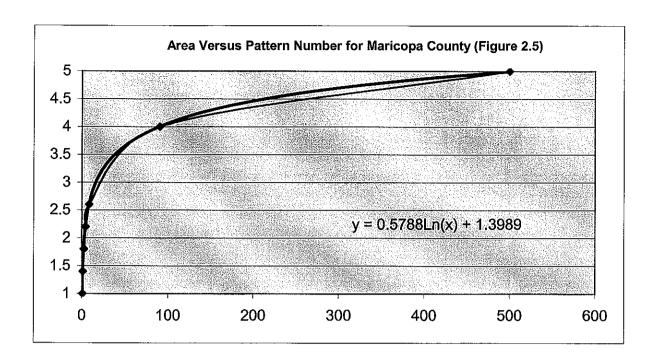
COMPOSITE VALUES OF PSIF AND DTHETA AS A FUNCTION OF XKSAT

(To be used for Area Weighted Averaging of Green and Ampt Parameter Values)



Drainage Design Manual for Maricopa County, AZ (Hydrology:Rainfall) Table 2.4 (6-Hour Distributions)

	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Locati on	Area (sq mi)	Weight	ed rain	Pattern
0	0.0%	0.0%	0.0%	0.0%	0.0%	0	` ' '	6hr	24hr	
15	0.8%	0.9%	1.5%	2.1%	2.4%	Α	120.95	3.19	4.28	
30	1.6%	1.6%	2.0%	3.5%	4.3%	В	1.06	3.04	4.20	1.43
45	2.5%	2.5%	3.0%	5.1%	5.9%	С	70.71	3.07	4.24	3.86
60	3.3%	3.4%	4.8%	7.1%	7.8%	D	16.86	3.09	4.25	3.03
75	4.1%	4.2%	6.3%	8.7%	9.8%	E	19.95	3.07	4.26	3.13
90	5.0%	5.1%	7.6%	10.5%	11.9%	F	13.83	3.06	4.25	2.92
105	5.8%	5.9%	9.0%	12.5%	14.1%	G	0.36	2.99	4.17	0.80
120	6.6%	6.7%	10.5%	14.3%	16.2%	Н	58.39	3.13	4.39	3.75
135	7.4%	7.6%	11.9%	16.0%	18.6%	J	2.10	2.99	4.15	1.83
150	8.7%	8.7%	13.5%	17.9%	21.2%	K	0.12	2.98	4.16	0.15
165	9.9%	10.0%	15.2%	20.1%	23.9%	L	1.13	2.98	4.15	1.47
180	₋ 11.8%	12.0%	17.5%	23.2%	27.1%	М	72.81	3.07	4.24	3.88
195	13.8%	16.3%	22.2%	28.1%	32.1%	N	134.49	3.09	4.30	4.24
210	21.6%	25.2%	30.4%	36.4%	40.8%	Q	274.99	3.14	4.29	4.65
225	37.7%	45.1%	47.2%	50.0%	51.5%					
240	83.4%	69.4%	67.0%	65.8%	62.7%					
255	91.1%	83.7%	79.6%	77.3%	73.5%					
270	93.1%	90.0%	86.8%	84.1%	81.4%					
285	95.0%	93.8%	91.2%	88.8%	86.4%					
300	96.2%	95.0%	94.6%	92.7%	90.7%					
315	97.2%	96.3%	96.0%	94.5%	93.0%		•			
330	98.3%	97.5%	97.3%	96.4%	95.4%					
345	99.1%	98.8%	98.7%	98.2%	97.7%					
360	100.0%	100.0%	100.0%	100.0%	100.0%					



Area-Depth Factor

Location	Area (sq mi)	6-hr	24-hr	
Α	133.97		0.837	
В	1.06	0.987		
С	70.71	0.833	0.863	
D	16.86	0.919	0.928	
E	19.95	0.910	0.918	
F	13.83	0.929		
G	0.36	0.996		
Н	58.39	0.848	0.871	
J	2.10	0.975		
K	0.12	0.993		
L	1.13	0.986	·	
M	72.81	0.831	0.861	
N	134.49		0.837	
Q	274.99		0.809	
J-HolyMoses-02	53.29	0.854	0.875	use percip from H
J-S26	0.95	0.988	0.995	
J-MG1	1.45	0.984		
JN-5	0.54	0.993		

6-Hour Dura	tion (Table 2.1)	24-Hour Distribu	ıtion (Table2.2)
0	1.000	0	1
0.5	0.994	10	0.95
1	0.987	20	0.918
2.8	0.975	30	0.9
5	0.960	40	0.887
10	0.940	50	0.877
16	0.922	60	0.87
20	0.910	70	0.863
30	0.890	80	0.857
40	0.870	90	0.852
90	0.810	100	0.848
100	0.800	110	0.845
		120	0.841
		130	0.838
		140	0.835
		150	0.832
		200	0.82
		250	0.812
		300	0.806
		400	0.796
		500	0.783

0.10	*4 - 1*	531.4.31	4.					<u> </u>			·	ī	1
6-hr Precip													$\vdash \downarrow$
0	В	С	D	E	F	G	Н	J	K	L	M	N	Q
Pattern	1.43	3.86	3.03	3.13	2.92	0.80	3.75	1.83	0.15	1.47	3.88	4.24	4.65
Precip (in)	3.04	3.07	3.09	3.07	3.06	2.99	3.13	2.99	2.98	2.98	3.07	3.09	3.14
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.03	0.06	0.05	0.05	0.04	0.02	0.06	0.02	0.02	0.03	0.06	0.04	0.09
30	0.05	0.10	0.06	0.07	0.06	0.05	0.10	0.05	0.05	0.05	0.10	0.04	0.18
45	0.08	0.15	0.09	0.10	0.09	0.07	0.14	0.07	0.07	0.07	0.15	0.07	0.21
60	0.10	0.21	0.15	0.16	0.14	0.10	0.20	0.10	0.10	0.10	0.21	0.13	0.25
75	0.13	0.26	0.20	0.20	0.19	0.12	0.25	0.12	0.12	0.12	0.26	0.17	0.36
90	0.15	0.31	0.24	0.25	0.23	0.15	0.31	0.15	0.15	0.15	0.31	0.20	0.44
105	0.18	0.37	0.28	0.29	0.27	0.17	0.36	0.17	0.17	0.17	0.37	0.24	0.52
120	0.20	0.42	0.33	0.34	0.31	0.20	0.42	0.20	0.20	0.20	0.43	0.28	0.61
135	0.23	0.47	0.37	0.38	0.35	0.22	0.47	0.22	0.22	0.22	0.48	0.31	0.75
150	0.26	0.53	0.42	0.43	0.40	0.26	0.53	0.26	0.26	0.26	0.53	0.34	0.91
165	0.30	0.60	0.48	0.49	0.45	0.30	0.59	0.30	0.30	0.30	0.60	0.38	1.03
180	0.36	0.69	0.55	0.56	0.52	0.35	0.68	0.35	0.35	0.35	0.69	0.45	1.12
195	0.45	0.84	0.69	0.71	0.66	0.41	0.83	0.40	0.41	0.45	0.84	0.59	1.28
210	0.70	1.09	0.95	0.96	0.91	0.65	1.09	0.63	0.64	0.69	1.10	0.84	1.60
225	1.24	1.52	1.46	1.46	1.44	1.13	1.54	1.09	1.12	1.23	1.52	1.42	1.70
240	2.35	2.03	2.07	2.05	2.05	2.49	2.07	2.56	2.49	2.29	2.02	2.14	1.65
255	2.67	2.38	2.46	2.43	2.44	2.72	2.44	2.76	2.72	2.61	2.38	2.55	1.94
270	2.79	2.59	2.68	2.65	2.66	2.78	2.65	2.80	2.78	2.73	2.59	2.75	2.33
285	2.87	2.74	2.82	2.79	2.79	2.84	2.80	2.84	2.83	2.82	2.73	2.87	2.51
300	2.90	2.86	2.92	2.90	2.90	2.88	2.92	2.88	2.87	2.85	2.85	2.97	2.68
315	2.94	2.91	2.97	2.94	2.94	2.91	2.97	2.91	2.90	2.89	2.91	3.00	2.80
330	2.97	2.97	3.01	2.98	2.98	2.94	3.02	2.94	2.93	2.92	2.96	3.03	2.91
345	3.00	3.02	3.05	3.03	3.02	2.96	3.08	2.96	2.96	2.95	3.02	3.06	3.03
360	3.04	3.07	3.09	3.07	3.06	2.99	3.13	2.99	2.98	2.98	3.07	3.09	3.14

27 111 1 10	cipitati	on Distri								
			A	C	D	E	H	M	N	Q
_	0.01	/laricop	4.28	4.24	4.25	4.26	4.39	4.24	4.30	4.29
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.25	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.5	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.75	0.00	0.01	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03
1	0.00	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1.25	0.00	0.01	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1.5	0.00	0.02	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1.75	0.00	0.02	0.09	0.08	0.09	0.09	0.09	80.0	0.09	0.09
2	0.00	0.02	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2.25	0.00	0.03	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
2.5	0.00	0.03	0.12	0.12	0.12	0.12	0.13	0.12	0.12	0.12
2.75	0.00	0.03	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
3	0.00	0.04	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
3.25	0.00	0.04	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16
3.5	0.00	0.04	0.18	0.17	0.17	0.17	0.18	0.17	0.18	0.18
3.75	0.00	0.04	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
4	0.00	0.05	0.21	0.20	0.20	0.20	0.21	0.20	0.21	0.21
4.25	0.00	0.05	0.22	0.22	0.22	0.22	0.23	0.22	0.22	0.22
4.5	0.00	0.06	0.24	0.24	0.24	0.24	0.25	0.24	0.24	0.24
4.75	0.00	0.06	0.26	0.25	0.26	0.26	0.26	0.25	0.26	0.26
5	0.00	0.06	0.27	0.27	0.27	0.27	0.28	0.27	0.28	0.27
5.25	0.00	0.07	0.29	0.29	0.29	0.29	0.30	0.29	0.29	0.29
5.5	0.00	0.07	0.31	0.31	0.31	0.31	0.32	0.31	0.31	0.31
5.75	0.00	0.08	0.33	0.32	0.32	0.32	0.33	0.32	0.33	0.33
6	0.00	0.08	0.34	0.34	0.34	0.34	0.35	0.34	0.34	0.34
6.25	0.00	0.09	0.36	0.36	0.36	0.36	0.37	0.36	0.37	0.36
6.5	0.00	0.09	0.39	0.38	0.38	0.38	0.40	0.38	0.39	0.39
6.75	0.00	0.10	0.41	0.40	0.40	0.40	0.42	0.40	0.41	0.41
7	0.00	0.10	0.43	0.42	0.43	0.43	0.44	0.42	0.43	0.43
7.25	0.00	0.11	0.45	0.45	0.45	0.45	0.46	0.45	0.45	0.45
7.5	0.00	0.11	0.47	0.47	0.47	0.47	0.48	0.47	0.47	0.47
7.75	0.00	0.11	0.47	0.49	0.49	0.47	0.40	0.49	0.49	0.49
	0.00	0.12	0.49	0.49	0.43	0.43	0.53	0.49	0.52	0.43
8 8.25		0.12	0.54	0.51	0.54	0.54	0.55	0.53	0.52	0.54
	0.00			0.56					0.57	0.54
8.5 9.75		0.13	0.57		0.57	0.57	0.58	0.56		
8.75	0.00	0.14	0.60	0.59	0.60	0.60	0.62	0.59	0.60	0.60
9	0.00	0.15	0.63	0.62	0.62	0.63	0.65	0.62	0.63	0.63
9.25	0.00	0.16	0.66	0.66	0.66	0.66	0.68	0.66	0.67	0.66
9.5	0.00	0.16	0.70	0.69	0.69	0.69	0.72	0.69	0.70	0.70
9.75	0.00	0.17	0.74	0.73	0.73	0.73	0.76	0.73	0.74	0.74
10	0.00	0.18	0.77	0.77	0.77	0.77	0.80	0.77	0.78	0.78
10.25	0.00	0.19	0.82	0.81	0.81	0.81	0.84	0.81	0.82	0.82
10.5	0.00	0.20	0.87	0.86	0.86	0.86	0.89	0.86	0.87	0.87
10.75	0.00	0.22	0.93	0.92	0.93	0.93	0.96	0.92	0.94	0.94
11	0.00	0.24	1.01	1.00	1.00	1.01	1.04	1.00	1.01	1.01
11.25	0.00	0.26	1.10	1.09	1.09	1.09	1.13	1.09	1.11	1.10
11.5	0.00	0.28	1.21	1.20	1.20	1.21	1.24	1.20	1.22	1.21
11.75	0.00	0.39	1.66	1.64	1.64	1.65	1.70	1.64	1.66	1.66
12	0.00	0.66	2.84	2.81	2.82	2.82	2.91	2.81	2.85	2.84
12.25	0.00	0.71	3.03	3.00	3.00	3.01	3.11	3.00	3.04	3.03
12.5	0.00	0.74	3.15	3.12	3.12	3.13	3.23	3.12	3.16	3.15
12.75	0.00	0.76	3.24	3.21	3.22	3.23	3.33	3.21	3.26	3.25
13	0.00	0.78	3.32	3.29	3.30	3.31	3.41	3.29	3.34	3.33
13.25	0.00	0.79	3.39	3.35	3.36	3.37	3.48	3.35	3.40	3.39

	····					ui Dia				
24-hr Pred	ipitatio	n Distr	ibution	(Type	II)					
			Α	C	D	Е	H	М	N	Q
13.5	0.00	0.80	3.44	3.41	3.42	3.43	3.53	3.41	3.46	3.45
13.75	0.00	0.82	3.49	3.46	3.46	3.47	3.58	3.46	3.50	3.50
14	0.00	0.83	3.53	3.50	3.51	3.51	3.62	3.50	3.55	3.54
14.25	0.00	0.83	3.57	3.54	3.54	3.55	3.66	3.54	3.59	3.58
14.5	0.00	0.84	3.60	3.57	3.58	3.59	3.70	3.57	3.62	3.61
14.75	0.00	0.85	3.63	3.60	3.61	3.62	3.73	3.60	3.65	3.64
15	0.00	0.86	3.66	3.63	3.64	3.65	3.76	3.63	3.68	3.67
15.25	0.00	0.86	3.69	3.66	3.67	3.68	3.79	3.66	3.71	3.70
15.5	0.00	0.87	3.72	3.68	3.69	3.70	3.82	3.68	3.74	3.73
15.75	0.00	0.88	3.75	3.71	3.72	3.73	3.84	3.71	3.76	3.75
16	0.00	0.88	3.77	3.74	3.74	3.75	3.87	3.74	3.79	3.78
16.25	0.00	0.89	3.80	3.76	3.77	3.78	3.90	3.76	3.81	3.81
16.5	0.00	0.89	3.82	3.79	3.80	3.80	3.92	3.79	3.84	3.83
16.75	0.00	0.90	3.84	3.81	3.82	3.83	3.95	3.81	3.86	3.85
17	0.00	0.90	3.86	3.83	3.84	3.85	3.97	3.83	3.88	3.87
17.25	0.00	0.91	3.89	3.85	3.86	3.87	3.99	3.85	3.90	3.90
17.5	0.00	0.91	3.91	3.87	3.88	3.89	4.01	3.87	3.93	3.92
17.75	0.00	0.92	3.93	3.89	3.90	3.91	4.03	3.89	3.95	3.94
18	0.00	0.92	3.95	3.91	3.92	3.93	4.05	3.91	3.96	3.96
18.25	0.00	0.93	3.96	3.93	3.94	3.94	4.07	3.93	3.98	3.97
18.5	0.00	0.93	3.98	3.94	3.95	3.96	4.09	3.94	4.00	3.99
18.75	0.00	0.93	4.00	3.96	3.97	3.98	4.10	3.96	4.02	4.01
19	0.00	0.94	4.01	3.98	3.99	4.00	4.12	3.98	4.03	4.02
19.25	0.00	0.94	4.03	3.99	4.00	4.01	4.14	3.99	4.05	4.04
19.5	0.00	0.95	4.05	4.01	4.02	4.03	4.16	4.01	4.07	4.06
19.75	0.00	0.95	4.07	4.03	4.04	4.05	4.17	4.03	4.09	4.08
20	0.00	0.95	4.08	4.04	4.05	4.06	4.19	4.04	4.10	4.09
20.25	0.00	0.96	4.09	4.05	4.06	4.07	4.20	4.05	4.11	4.10
20.5	0.00	0.96	4.10	4.07	4.08	4.09	4.21	4.07	. 4.12	4.11
20.75	0.00	0.96	4.12	4.08	4.09	4.10	4.23	4.08	4.14	4.13
21	0.00	0.97	4.13	4.09	4.10	4.11	4.24	4.09	4.15	4.14
21.25	0.00	0.97	4.14	4.10	4.11	4.12	4.25	4.10	4.16	4.15
21.5	0.00	0.97	4.16	4.12	4.13	4.14	4.27	4.12	4.18	4.17
21.75	0.00	0.97	4.17	4.13	4.14	4.15	4.28	4.13	4.19	4.18
22	0.00	0.98	4.18	4.14	4.15	4.16	4.29	4.14	4.20	4.19
22.25	0.00	0.98	4.19	4.16	4.17	4.17	4.31	4.16	4.21	4.20
22.5	0.00	0.98	4.21	4.17	4.18	4.19	4.32	4.17	4.23	4.22
22.75	0.00	0.99	4.22	4.18	4.19	4.20	4.33	4.18	4.24	4.23
23	0.00	0.99	4.23	4.19	4.20	4.21	4.35	4.19	4.25	4.24
23.25	0.00	0.99	4.25	4.21	4.22	4.23	4.36	4.21	4.27	4.26
23.5	0.00	1.00	4.26	4.22	4.23	4.24	4.37	4.22	4.28	4.27
23.75	0.00	1.00	4.27	4.23	4.24	4.25	4.39	4.23	4.29	4.28
24	1.00	1.00	4.28	4.24	4.25	4.26	4.39	4.24	4.30	4.29

	Area (ft²)	Area (mi²)	Length (ft)	Length (mi)	Centroid Length (ft)	Centroid Length (mi)	Top Elev	Bottom Elev	Elev Diff	Slope (ft/mi)	Slope (%)	Tc (hr)	Tc (min)	ď
SacWashE-01	29599749	1.06	14979	2.84	8119	1.54	2630	2480	150	48.9790	0.93%	1.60	96.14	1.39
SacWashA-02	134011258	4.81	20777	3.94	14445	2.74	2620	2450	170	41.9266	0.79%	2.41	144.56	1.20
SacWashA-03	11782477	0.42	9082	1.72	0989	1.20	2760	2620	140	57.7389	1.09%	1.17	70.43	1.11
SacWashA-04	59246948	2.13	19991	3.79	9866	1.89	2875	2660	215	54.9515	1.04%	Н	113.98	1.42
SacWashA-05	90699043	3.25	23378	4.43	11669	2.21	3020	2755	265	56.3798	1.07%		127.94	1.44
SacWashA-06	30119664	1.08	13361	2.53	9945	1.88	3000	2810	190	72.1779	1.37%	1.52	91.11	1.18
SacWashB-01	147968687	5.31	21454	4.06	12306	2.33	4400	2990	1410	196.6517	3.72%	1.73	103.80	0.81
SacWashA-07	274352090	9.84	31454	5.96	27828	5.27	3400	2810	290	83.0358	1.57%		177.03	1.39
SacWashA08	144771184	5.19	39654	7.51	17055	3.23	3840	2840	1000	99.4451	1.88%	Н	150.18	2.01
SacWashA-09	285879403	10.25	52974	10.03	28079	5.32	4600	2860	1740	107.4644	2.04%		192.75	2.27
SacWashA-11	388340570	13.93	40008	7.58	21313	4.04	3950	2960	066	106.9435	2.03%		173.10	1.35
SacWashA-12	508380338	18.24	62455	11.83	28066	5.32	5060	3080	1980	100.2296	1.90%	3.60	215.71	2.11
SacWashA-12	289918143	10.40	72656	13.76	33888	6.42	6400	3120		143,4842	1		206.64	3.13
SacWashA-12	268461945	9.63	63372	12.00	24796	4.70	6880	3120		146.2960	2.77%	3.04	182.57	2.56
SacWashD-01	394520758	14.15	81719	15.48	34089	6.46	7000	2780		104.1779			234.32	3.32
SacWashA-10	77312465	2.77	22405	4.24	10408	1.97	3160	2910	250	56.0394	1.06%	2.02	121.22	1.44
Offsite Diverted-02	31599960	1.13	8455	1.60	4260	0.81	2700	2560	140	83.4078	1.58%	1.07	64.18	0.54
Offsite Diverted-01	3237668	0.12	3181	09.0	1998	0.38	2950	2620	330	195.5571	3.70%		27.93	0.36
HolyMosesA-02	33823072	1.21	18918	3.58	16072	3.04	2920	2640	280	75.2405	1.43%	\dashv	112.43	1.85
13MileWashE-03	9951908	0.36	7083	1.34	2548	0.48	2760	2660	100	70.5767	1.34%	0.83	49.74	0.68
HolyMosesA-03	108020771	3.87	21617	4.09	10105	1.91	4120	2920	1200	164.7413	3.12%		99.39	0.92
HolyMosesA-05	119031114	4.27	25256	4.78	13053	2.47	3960	3080		125.0076	1		117.55	1.19
HolyMosesA-07	371544656	13.33	45292	8.58	25427	4.82	4900	3400		133.2136	2.52%	寸	177.80	1.58
HolyMosesA-08	537503461	19.28	72340	13.70	42862	8.12	8160	3180		202.9523	- 1	3.62	217.24	2.32
HolyMosesA-06	227180971	8.15	49071	9.29	30363	5.75	0009	3200		241.2147	- 1	┪	160.31	1.98
HolyMosesA-04	230397565	8.26	49533	9.38	24760	4.69	4500	3040	1460	142.3288	2.70%	2.83	169.93	2.11
4 ON 41 - 14 O.	00000	00	1007	100	70.1		90,0	1110		000		9	20	9
13IVIIIeWash-U1	288820	0.02	1905	0.37	12/3	0.24	2490	24/5	ဂ	40.009	0.70%	54.0	/0.07	000
13MilevvasiiC-0	1040010	40.04	27.30	0.53	1018	9.59	0107	2430	7070	37.722	-	+	10.10	2 7
10 VIII EVV asric-04	1406/3041	40.0	04 144	0.47	10000	20.00	2220	2007	2647	405 574	4.33%	+	04.02	4 2
13MileWasii-04	119032200	40 00	397.94	7.54	13200	2 00	3320	2605	7605	4/00/06	I _	20.00	174 64	100,000
13MileWasi Clinisc-0 1	325042063	14.88	40000	7.53	47450	0.00	1200	2500	CEDI	107 572		✝	45.67	, o. r
10MileWashCillsC-02	47000074	45	40500	7.00	47540	0.0	2007	2000	2550	010.121	- 1	t	3 5	3 5
Tolvillevvashb-up	170936741	0.47	40022	70.7	71017	3.32	2400	2010	2007	100.003	1	+	70.07	
13MileWash-02	21820460	0.78	18947	3.59	9611	1.82	2700	2490	210	56.317	1.07%	+	100.31	2.09
13MileWash-03	44191903	1.59	25954	4.92	12566	2.38	2960	2580	380	72.774	- 1	+	118.31	2.16
13MileWashC-03	32152694	1.15	C8807	3.85	9411	1.78	28/5	2202	3/0	74.226		十	38.87	//:
13MileWashC-02	90609009	1.80	19824	3.75	9637	1.83	2/65	2640	125	64.091	1.21%	1./9	107.49	1.40

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Technical Drainage Study Golden Valley Ranch

Muskingum Calculations (wide rectangular channel assumed)

Time interval (min	1 5						Status 1/	(2*(1-	X) = K/ (NST)	Status $1/(2*(1-X)) \le K/(NSTPS*TIME INTERVAL) \le 1/(2*X)$	AL) <=1/(2	(×*
Assumed Depth (ft)	г г		2									
Identification	Lengt h	Slope%	ជ	Velocity	Adj. Veloci ty	Sälsi	K	X	1/(2*(1- x))	K/(NSTPS*TIME)	1/(2*X)	STATUS
R-J-SacWash-02	3182	1.0371	0.035	4.3	2.7	25 cm	0.326206	0.15	0.58823529	1.957238731	3.33333	OK
R-J-SacWash-03	10917	0.9068	0.035	4.1	2.5	9	1.196841	0.15	0.58823529	2.872419509	3.33333	OK
R-J-SacWash-04	6541	0.902	0.035	4.0	2.5	3.0	0:719018	ST:0	0.58823529	2.876070099	3.33333	OK
R-J-SacWash-05	3159	1.4562	0.035	5.1	3.2	-1	0.273303	91:0	0.58823529	3.279638884	3.33333	OK
R-J-SacWash-06	2554	0.5873	0.035	3.3	2.0	2	0.347924	0.15	0.58823529	2.087546788	3.33333	OK
R-J-SacWash-07	4938	0.6075	0.035	3.3	2.1	8	0.661402	0.15	0.58823529	0.99210244	3.33333	OK
R-J-SacWash-08	4097	1.3424	0.035	4.9	3.1	2	0.369162	0.15	0.58823529	2.214971331	3.33333	OK
R-SacWashA-11	11765	1.071	0.035	4.4	2.8	9	1.186867	0. IS	0.58823529	2.373733059	3.33333	OK
R-J-SacWash-01	17092	0.9537	0.035	4.2	5.6	4	1.827237	0:15	0.58823529	3.132405572	3.33333	OK
R-J-SacWash-09	19820	0.9132	0.035	4.1	2.5	8	2.165287	51:0	0.58823529	3.247930329	3,33333	OK
R-J-SacWashB-11	13178	1.3356	0.035	4.9	3.1	9	1.190466	0.15	0.58823529	2.8571196	3.33333	OK
R-J-SacWashD-01	3231	0.9595	0.035	4.2	2.6	2	0.344369	0.15	0.58823529	2.066213041	3.33333	OK
J11-12	18740	1.4781	0.035	5.2	3.2	~ 9 ~	1.609214	0.15	0.58823529	3.218427636	3.33333	OK
R-J-HolyMoses-02	7071	1.7395	0.035	5.6	3.5		0.559716	0.15	0.58823529	2.238865218	3.33333	OK
J13-14	3219	1.1494	0.035	4.6	2.9	2	0.313458	0.15	0.58823529	1.880750176	3.33333	OK
J14-15	4004	2.1229	0.035	6.2	6 8	3.5	0.286900	ST:0	0.58823529	1.147600925	3.3333	OK
								100				
R-SacWashA-01	13503	0.0518	0.035	1.5	1.0	三15	3.900398	ST:0	0.58823529	3.120318763	3.33333	OK
R-HolyMosesA-01	18392	1.1962	0.035	4.7	2.9	T_{i}	1.755623	0.15	0.58823529	3.009640073	3.33333	OK
R-13MileWashD-02	19358	1.0332	0.035	4.3	2.7	8	1.988268	0.15	0.58823529	2.982402449	3.33333	OK
R-Confl-13Mil-C	2101	0.9519	0.035	4.2	2.6	1	0.224814	0.15	0.58823529	2.697767911	3.33333	OK
R-J-L	9069	0.6226	0.035	3.4	2.1	9	0:913703	0.15	0.58823529	1.827405328	3.33333	OK
R-J-M	8498	0.7884	0.035	3.8	2.4	9	0.999164	0.15	0.58823529	1.998328776	3.33333	OK
R-HolyMosesA-02	18229	1.2	0.035	4.7	2.9	L	1.737312	[0.15]	0.58823529	2.978249453	3.33333	OK
R-SacWashE-01	24419	1.15	0.035	4.6	2.9	6.	2.377306	5T 09	0.58823529	3.169740671	3.33333	OK
						A Transfer of Automotive						

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Golden Valley Ranch Technical Drainage Study

Identification	Lengt h	Slope%	ц	Adj. Velocity Veloci ty	Adj. Veloci ty	Salsn	W	×	1/(2*(1- X))	K/(NSTPS*TIME)	1/(2*X)	STATUS
R-HM_Div03	8695	1.4951	0.035	5.2	3.3	Tables	0.742390 0.15 0.58823529	.15	0.58823529	2.22716922	3.33333	OK
								· · · · · · · · · · · · · · · · · · ·				
						Resident Makes						
R-HM_Div02	3626	3626 1.3789 0.035	0.035	5.0	3.1		2 8 0.322371 0.15 0.58823529	.15	0.58823529	1.93422595	3.33333	OK
R-Div02	24121	24121 0.9328 0.035	0.035	4.1	2.6	0.	2:607360 0:15		0.58823529	3.128831734	3.33333	OK
R-HM_Div01	6361	6361 1.4149 0.035	0.035	5.1	3.2	3	0.558298 0.15 0.58823529	.15	0.58823529	2.233192125	3.33333	OK
R-Div01	4860	4860 1.3374 0.035	0.035	4.9	3.1	-z	0.438730 0.15		0.58823529	2.632377886	3.33333	OK
R-J-S26	2564	2564 0.78 0.035	0.035	3.8	2.3		0.303083 0.15 0.58823529	S.	0.58823529	1.818496802	3.33333	OK
R-Ex Shed C	15439	15439 1.1011 0.035	0.035	4.5	2.8	9 🔌	1536044 0.15 0.58823529	:12	0.58823529	3.072087234	3.33333	OK N
R-Ex Shed D	9403	2.0738 0.035	0.035	6.1	3.8		0.681682 0	:12	3 681682 0.15 0.58823529	2.726726618	3.3333	OK

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GOLDEN VALLEY RANCH

APPENDIX C

HYDRAULICS

HEC-RAS Diversion Channel Analysis for the Holy Moses Wash
HEC-RAS Analysis for Holy Moses Diversion Wash 1 — Base Flood Elevation (BFE)
Normal Depth Street Capacity Analysis
Normal Depth Channel Analysis
Culvert Analysis

Golden Valley Ranch Technical Drainage Study

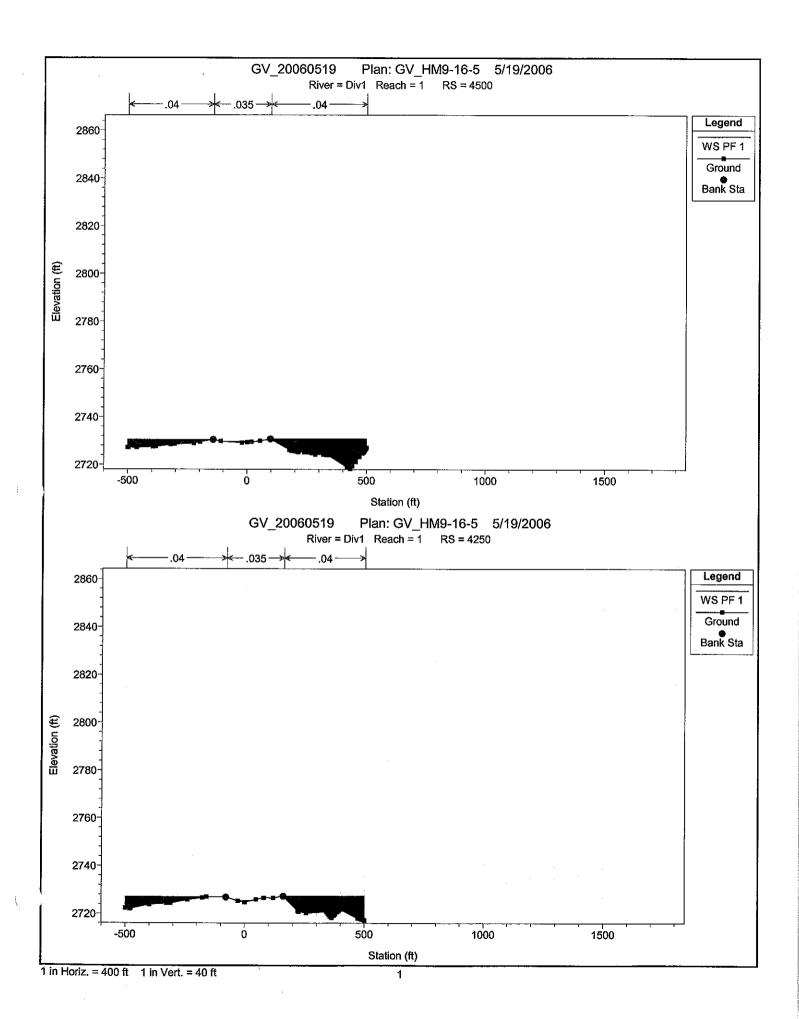
HEC-RAS Plan: 9-16	6-05 Profile: PF 1	T						· · · · · ·	
River	Reach River Sta	Drofile	Q Total	Min Ch El	W.S. Elev	Vol Chal	Flow Area	Top Width	Froude # Chl
Kivei	Readil River Sta	Frome							Floude # Cili
Holy Mosos Wash	1 27750	DE 4	(cfs) 9904	(ft) 2914.2	(ft) 2920.35	(ft/s) 11.8	(sq ft) 1309.57	(ft) 562.21	. 0.97
Holy Moses Wash Holy Moses Wash	1 27500		9904	2914.2	2916.8	6.49	1861.05	865.8	0.69
Holy Moses Wash	1 27250		9904	2907.8		9.92	998.33	325.81	0.09
Holy Moses Wash	1 27000		9904	2903.6		11.39	869.74	301.7	1.18
Holy Moses Wash	1 26750		9904			12.59	801.26	311.19	1.31
Holy Moses Wash	1 26500		9904				1649.02	663.25	0.66
Holy Moses Wash	1 26250		9904				4005.92	925.09	0.23
Holy Moses Wash	2 26000		5229				488.47	116.51	0.85
Holy Moses Wash	2 25750		5229				235.04	158.23	3.22
Holy Moses Wash	2 25500		5229			8.4	622.48	285.15	1
Holy Moses Wash	2 25250		5229				521.71	291.52	1.32
Holy Moses Wash	2 25000		5229			3.17	629.38	291.32	0.73
Holy Moses Wash	2 24750		5229			2.41	2138.84	440.19	0.2
Holy Moses Wash	2 24500		5229				468.06	122.08	0
Holy Moses Wash	2 24250		5229				404.21	94.33	0
Holy Moses Wash	2 24000		5229		2862.23		382.83	89.93	0
Holy Moses Wash	2 23750		5229				402.33	77.51	0
Holy Moses Wash	2 23500		5229		2855.01	13.29	391.02	92.17	1.19
Holy Moses Wash) PF 1	5229				662.06	359.91	0.64
Holy Moses Wash	2 23000		5229			19.05	274.46	148.42	2.47
Holy Moses Wash	2 22750) PF 1	5229				529.82	175.32	1
Holy Moses Wash	2 22500) PF 1	5229			3.03	2071.16	610.84	0.27
Holy Moses Wash	2 22250) PF 1	5229	2831.4	2833.82	5.45	626.91	300.08	0.97
Holy Moses Wash	2 22000) PF 1	5229	2825.4	2831.1	6.68	815.07	314.01	0.73
Holy Moses Wash	2 21750) PF 1	5229	2821.5	2827.61	10.83	482.99	134.58	1.01
Holy Moses Wash	2 21500) PF 1	5229	2814.2	2823.21	3.46	1510.93	333.35	0.29
Holy Moses Wash	2 21250) PF 1	5229	2810.85	2821.68	8.23	635.64	313.4	1.02
Holy Moses Wash	2 21000) PF 1	5229	2807.8	2813.99	14.12	370.29	146.09	1.56
Holy Moses Wash	2 20750) PF 1	5229	2795.7	2810.43	2.41	2172.65	212.07	0.13
Holy Moses Wash	2 20500) PF 1	5229	2798.7	2807.88	12.17	429.78	94.28	1
Holy Moses Wash	2 20250) PF 1	5229	2794.7			375.74	81.78	1.14
Holy Moses Wash) PF 1	5229	2792.2	2803.47	8.56	610.78	148.63	0.74
Holy Moses Wash	2 19750) PF 1	5229	2796.9	2801.21	8.66	604.1	260.54	1
Holy Moses Wash	2 19500) PF 1	5229		2798.61	6.3	830.39	389.56	0.76
Holy Moses Wash) PF 1	5229				599.8		1.01
Holy Moses Wash) PF 1	5229				541.76		1.08
Holy Moses Wash) PF 1	5229				550.01	278.7	1.19
Holy Moses Wash) PF 1	5229		2779.5	12.88	405.9		1.52
Holy Moses Wash	2 18250) PF 1	5229				926.2		0.72
Holy Moses Wash) PF 1	5229				665.47		0.97
Holy Moses Wash) PF 1	5229				1749.47		0.37
Holy Moses Wash) PF 1	4141	2765.35			563.02		1
Holy Moses Wash) PF 1	4141	2755.4			251.25		1.83
Holy Moses Wash) PF 1	4141	2751.9			696.16		
Holy Moses Wash) PF 1	4141	2747.5			852.13		0.69
Holy Moses Wash) PF 1	4141	2745.73			574.87		1.01
Holy Moses Wash) PF 1	4141	2742.5			571.8		1.07
Holy Moses Wash) PF 1	4141	2735.46			644.44		0.85
Holy Moses Wash) PF 1	4141	2734			568.15		
Holy Moses Wash) PF 1	4141	2729.43			406.27		1.29
Holy Moses Wash) PF 1	4141	2727.5			753.78		0.61
Holy Moses Wash) PF 1	4141	2723.31			663.27		0.73
Holy Moses Wash	and the second s) PF 1	4141	2720.3			525.46		1.03
Holy Moses Wash) PF 1	4141	2716.1			638.17		0.7
Holy Moses Wash) PF 1	4030				463.45		
Holy Moses Wash	4 13750) PF 1	4030	2710.9	2715.63	9.09	443.55	182.2	1.03

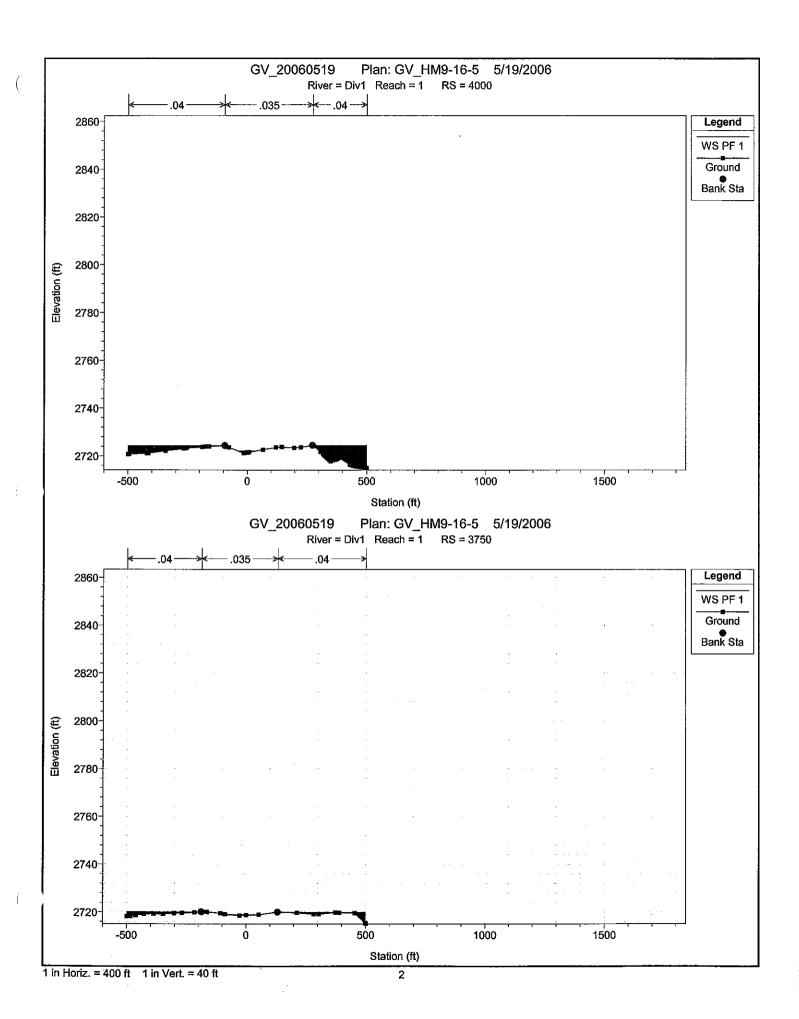
Golden Valley Ranch Technical Drainage Study

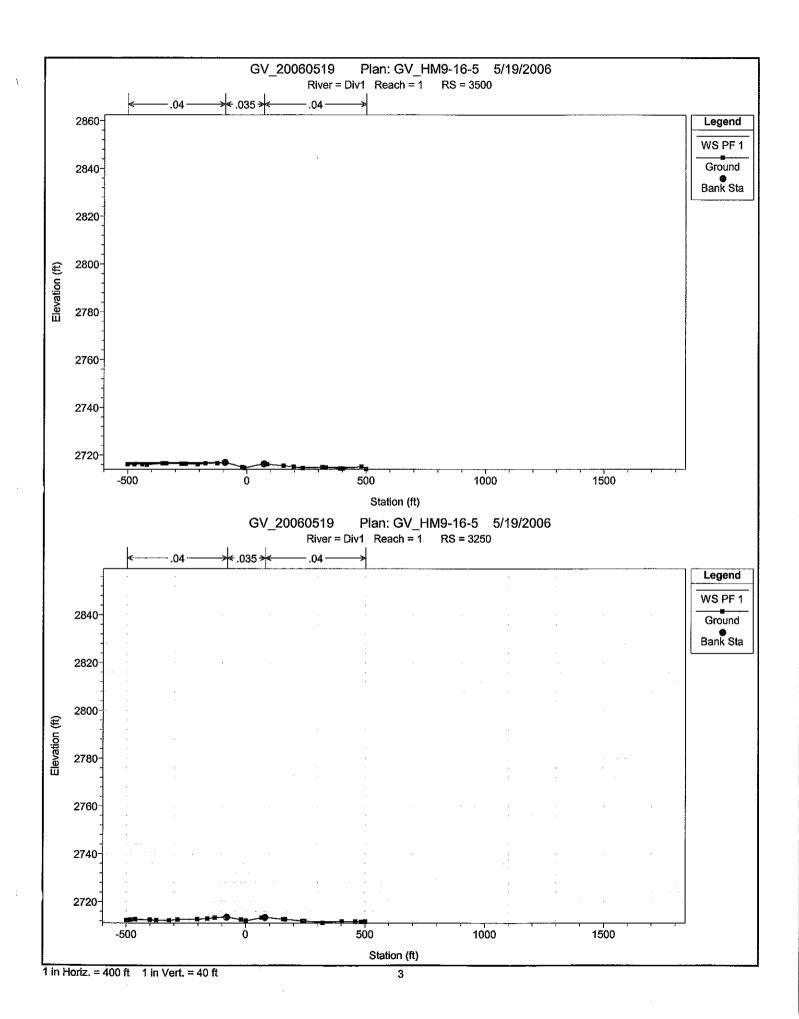
River	Reach	Divor Sto Drofile	I O Totall	Min Ch Cil	W.C. Fland	V-1 Ob-11		T 141: 445	F1- # 051
	·	River Sta Profile							
Holy Moses Wash	4	13500 PF 1	4030	2707.5	2712.56	8.43	478.2	203.41	0.97
Holy Moses Wash Holy Moses Wash	4 4	13250 PF 1	4030	2703.5	2709.41	8.38	481.17	204.76	0.96
Holy Moses Wash	4	13000 PF 1 12750 PF 1	4030 4030	2700.2 2699.6	2706.59	7.63	527.87	235.9	0.9
Holy Moses Wash	4	12500 PF 1	4030	2696	2703.28 2699.92	8.72 8.59	461.94	191.09	0.99
Holy Moses Wash	4	12250 PF 1	4030	2691.9	2696.12	7.53	469.15 534.85	209.75	1.01
Holy Moses Wash	4	12000 PF 1	4030	2689.1	2693.15	9.24	436.25	189.03 164.8	0.79 1
Holy Moses Wash	4	11750 PF 1	4030	2686	2689.15	9.77	437.51	216.9	1.19
Holy Moses Wash	4	11500 PF 1	4030	2682.8	2685.85	8.09	525.29	248.46	0.99
Holy Moses Wash	4	11250 PF 1	4030	2678.5	2683.52	7.08	670.06	341.76	0.33
Holy Moses Wash	4	11000 PF 1	4030	2674.6	2680.09	10.12	398.41	124.61	1
Holy Moses Wash	4	10750 PF 1	4030	2672.5	2677.09	9.29	433.59	164.22	1.01
Holy Moses Wash	4	10500 PF 1	4030	2669.4	2673.51	9.39	429.37	179.86	1.07
Holy Moses Wash	4	10250 PF 1	4030	2666.2	2669.42	8.91	452.09	233.68	1.13
Div3	1	3750 PF 1	4375	2884.1	2902	0.49	11590.54	1356.17	0.02
Div3	1	3500 PF 1	4375	2898.5	2901.81	4.2	1453.74	1102.36	0.51
Div3	1	3250 PF 1	4375	2893.5	2899.13	8.59	509.31	223.6	1
Div3	1	3000 PF 1	4375	2890	2894.78	5.72	765.11	226.7	0.55
Div3	1	2750 PF 1	4375	2888.3	2892.34	9.19	475.9	181.7	1
Div3	1	2500 PF 1	4375	2884.9	2887.98	9.5	460.65	259.08	1.26
Div3	1	2250 PF 1	4375	2879.6	2884.12	7.45	587.24	195.99	0.76
Div3	1	2000 PF 1	4375	2876.3	2881.46	8.34	524.48	243.39	1
Div3	1	1750 PF 1	4375	2873	2877	. 10.68	479.63	249.87	1.19
Div3	1	1500 PF 1	4375	2867.7	2874.51	9.17	815.58	435.48	0.75
Div3	1	1250 PF 1	4375	2866.5	2872.72	6.45	692.33	383.18	0.79
Div3 Div3	1 1	1000 PF 1	4375	2864.4	2869.51	8.16	535.88	259.24	1
Div3	1	750 PF 1	4375	2860.5	2865.57	10.16	506.96	273.15	1.08
Div3	1	500 PF 1 250 PF 1	4375	2855.4	2860.8	11.04	402.68	167.02	1.18
Div2	1	18500 PF 1	4375 1088	2851.5 2765.24	2855.7	11.38	390.39	188.61	1.29
Div2	1	18250 PF 1	1088	2762	2767.46 2765.04	4.78 6.23	227.7 174.64	152.41 97.81	0.69
Div2	1	18000 PF 1	1088	2759.14	2761.75	7	155.38	104.3	0.82 1.01
Div2	1	17750 PF 1	1088	2753.84	2756.89	8.67	125.56	71.02	1.15
Div2	1	17500 PF 1	1088	2748.74	2752.11	8.36	130.12	76.04	1.13
Div2	1	17250 PF 1	1088	2744.77	2750.37	4.91	221.7	89.32	0.55
Div2	1	17000 PF 1	1088	2743.48	2747.88	8.34	130.5	60.85	1
Div2	1	16750 PF 1	1088	2741.11	2744.35	7.27	149.67	93.15	1.01
Div2	1	16500 PF 1	1088	2737.14	2740.39	7.47	145.6	87.02	1.02
Div2	1	16250 PF 1	1088	2733.96	2732.17		139.57	266.26	0
Div2	1	16000 PF 1	1088	2728.94	2726.01		220.19	300.93	0
Div2	1	15750 PF 1	1088	2726.81	2724.08		379.5	195.65	0
Div2	1	15500 PF 1	1088	2723.77	2722.18		184.49	175.53	0
Div1	1	4500 PF 1	111	2729.2	2729.83	2.38	46.69	142.85	0.73
Div1	1	4250 PF 1	111	2724.9	2725.7	3.39	32.78	74.11	0.9
Div1	1	4000 PF 1	111	2721.1	2722.1	2.85	38.91	78.84	0.72
Div1	1	3750 PF 1	111	2718.5	2719.02	2	46.46	144.89	0.69
Div1	1	3500 PF 1	111	2714.7	2714.94	0.91	75.89	266.95	0.46
Div1	1	3250 PF 1	111	2712	2711.79		48.9	223.12	0
Div1	1	3000 PF 1	111	2709.3	2707.98		66.5	233.29	0
Div1	1	2750 PF 1	111	2706.6	2703.4		33.52	101.23	0
Div1 Div1	ੀ -4	2500 PF 1	111	2703.1	2699.11		69.38	117.19	0
Div1	1	2250 PF 1	111	2697.8	2697.03		39.6	129.21	0
Div1	1	2000 PF 1	111	2692	2689.65		29.71	69.72	0
Div1	1	1750 PF 1 1500 PF 1	111	2689.5	2687.77	4 22	54.81	62.29	0
Div1	1	1250 PF 1	111 111	2685.5 2681.9	2685.7 2680.26	1.33	27.19	54.5	0.78
Div1	1	1000 PF 1	111	2677.6	2678.59	2.2	44.06 50.13	51.94 99.95	0 0.58
Dìv1	i	750 PF 1	111	2677	2674.91	۷.۷	25.65	99.95 44.94	0.58 0
J., .	'	TOU ET 1	(11)	2011	2014.81		20.00	44.94	U

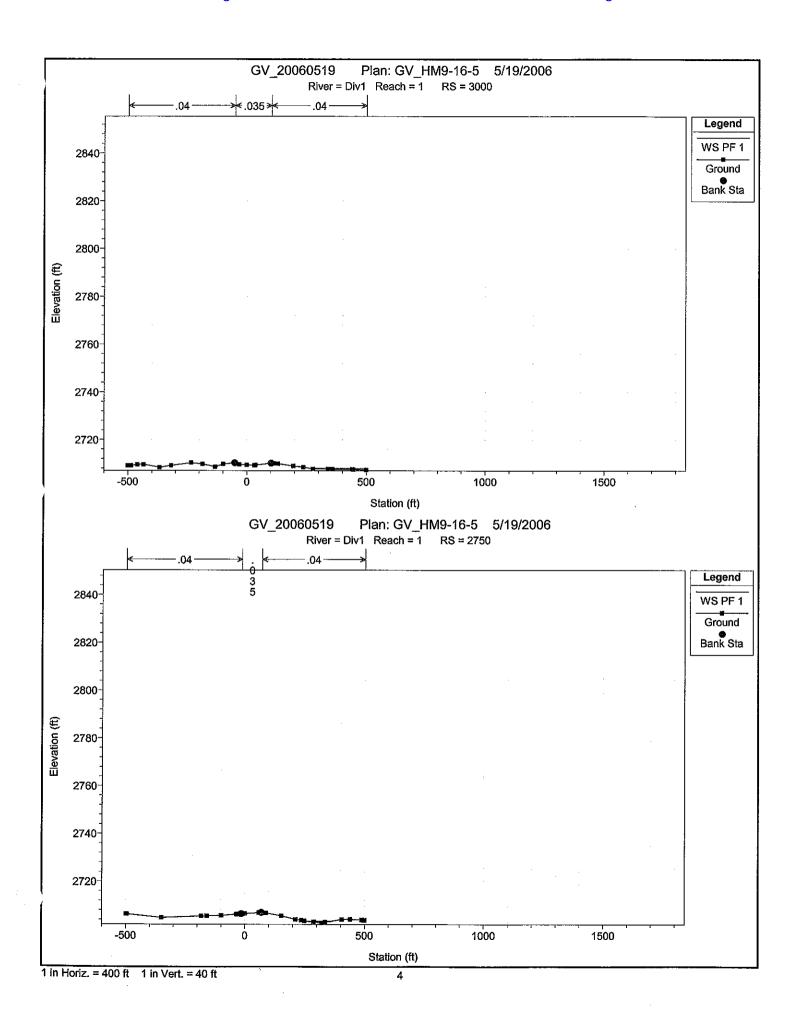
Golden Valley Ranch Technical Drainage Study

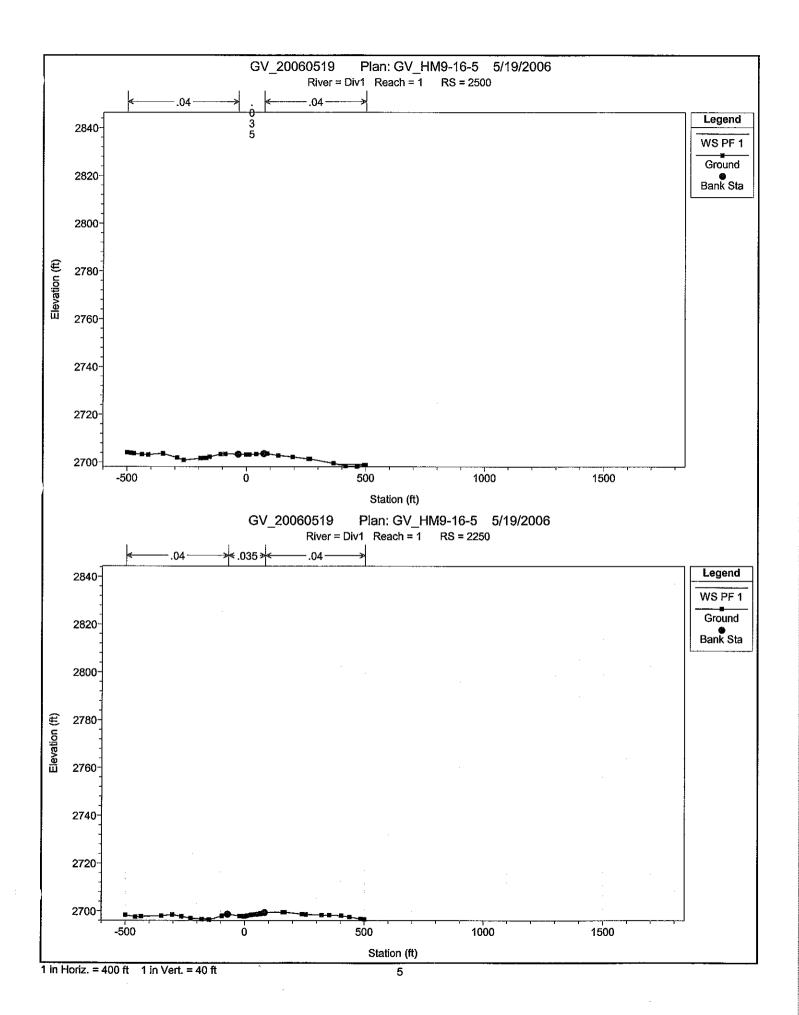
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Vel Chnl	Flow Area	Top Width	Froude # Ch!
Div1	1	500	PF 1	111	2671.8	2671.07		53.58	40.33	0
Div1	1	250	PF 1	111	2669.4	2669.59	1.31	33.16	93.51	0.8

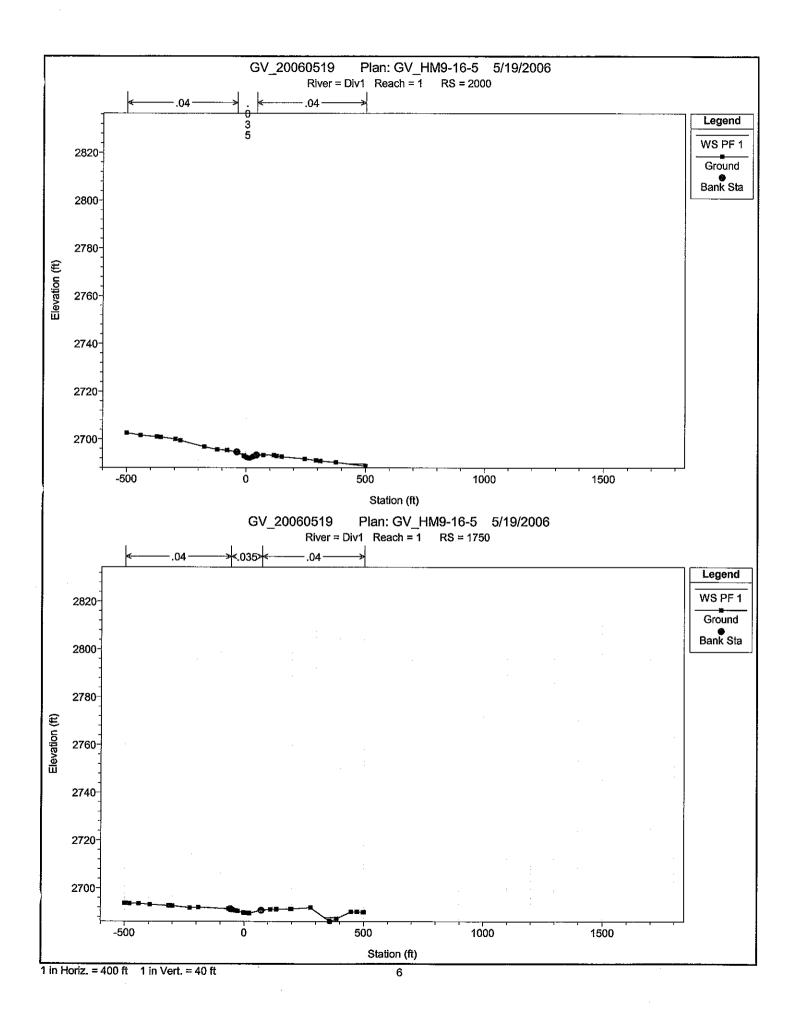


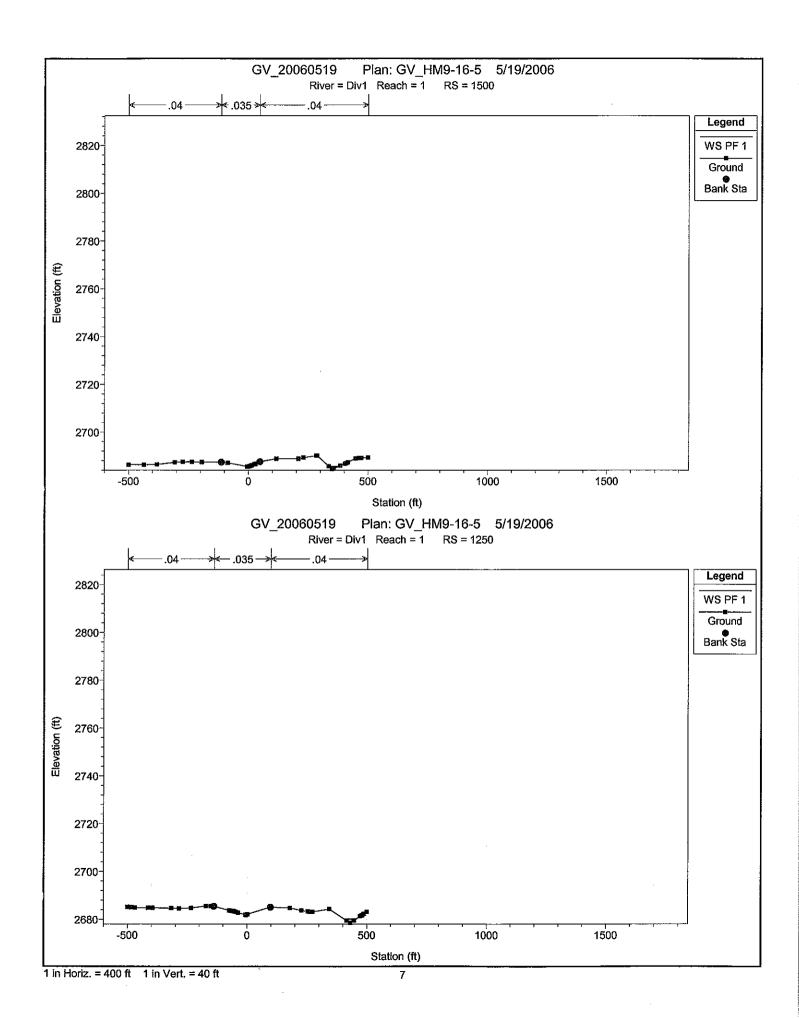


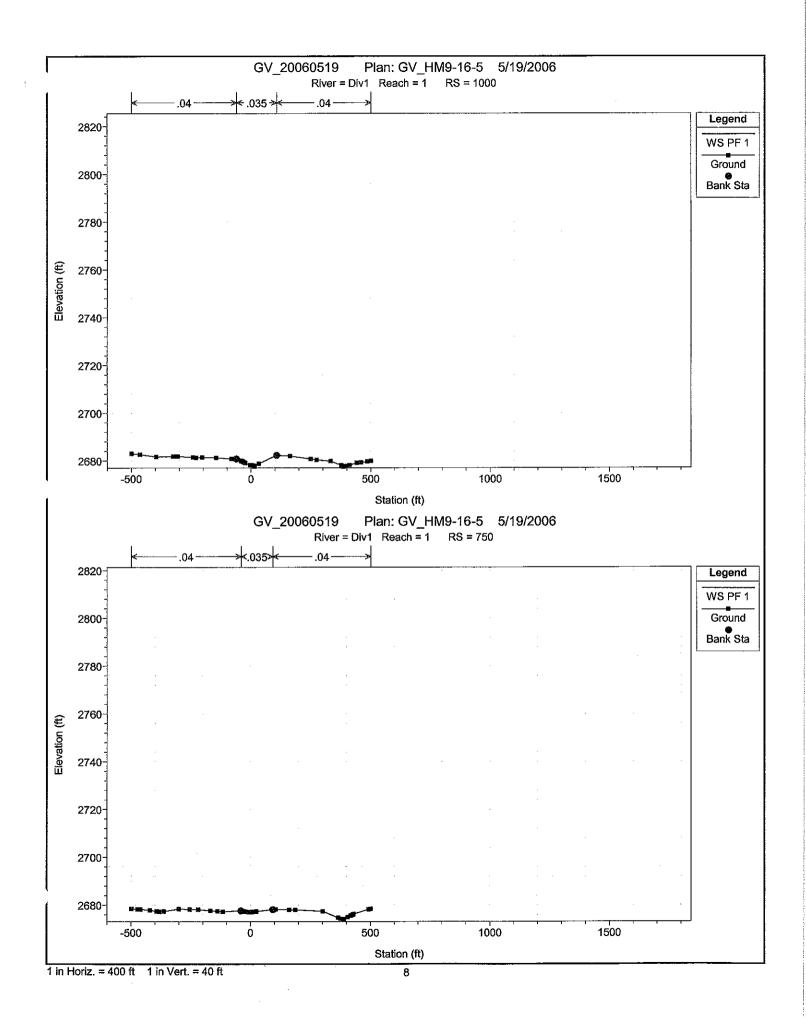


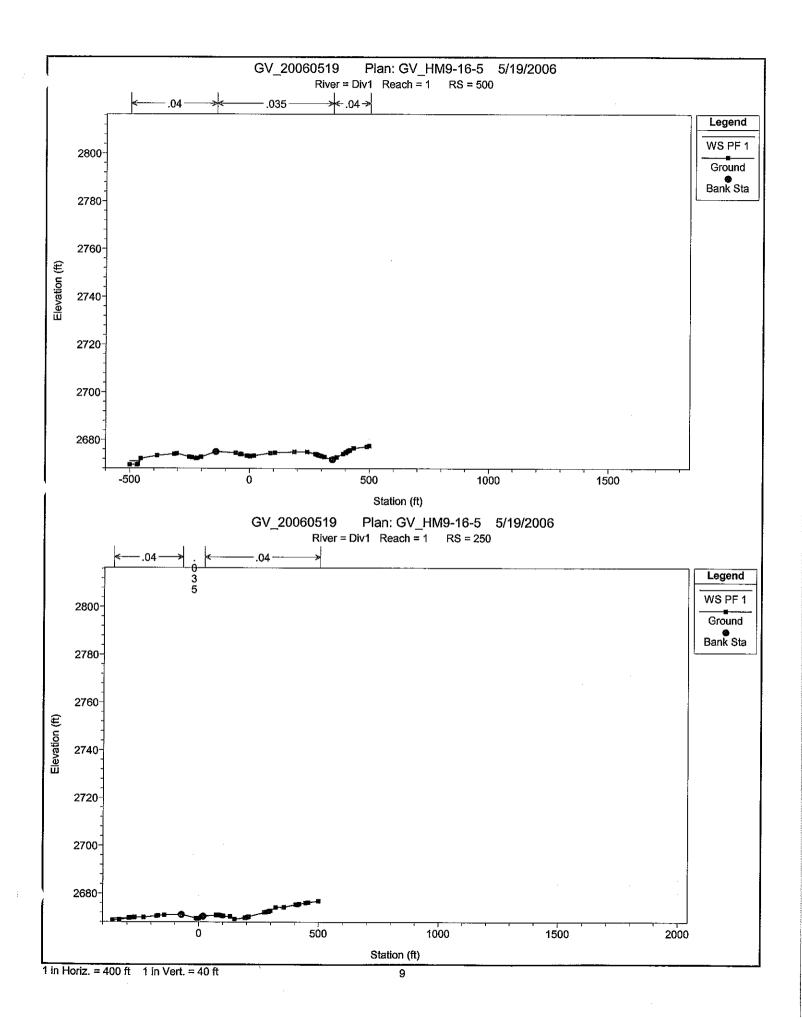


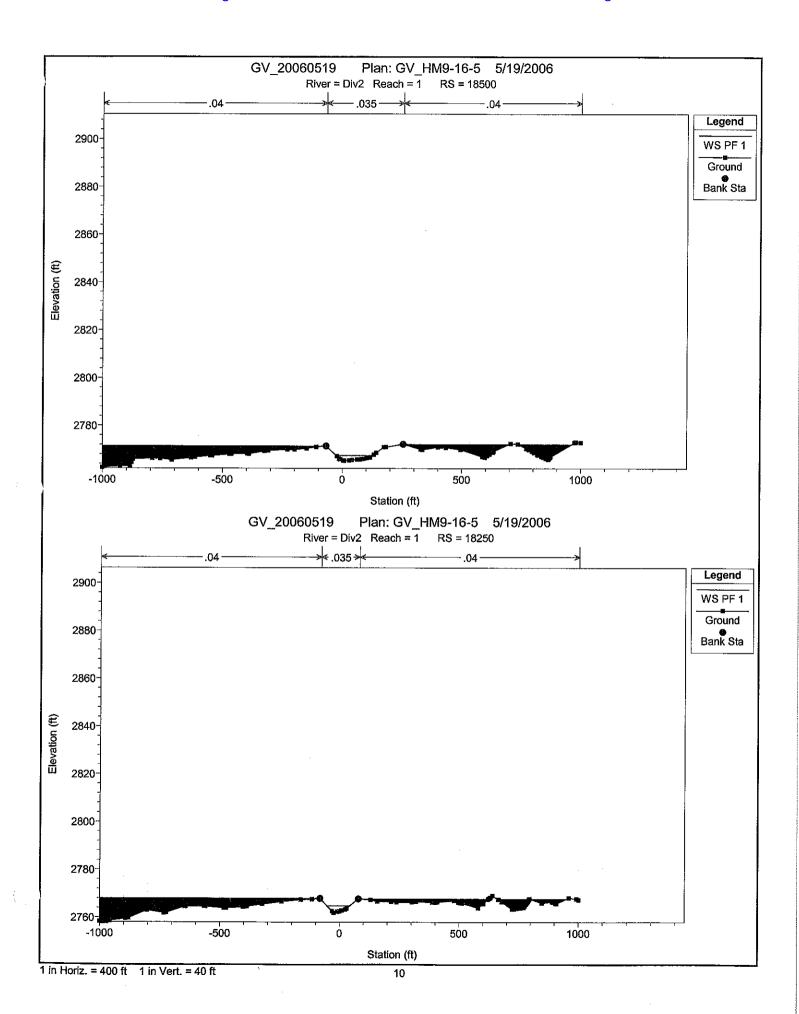


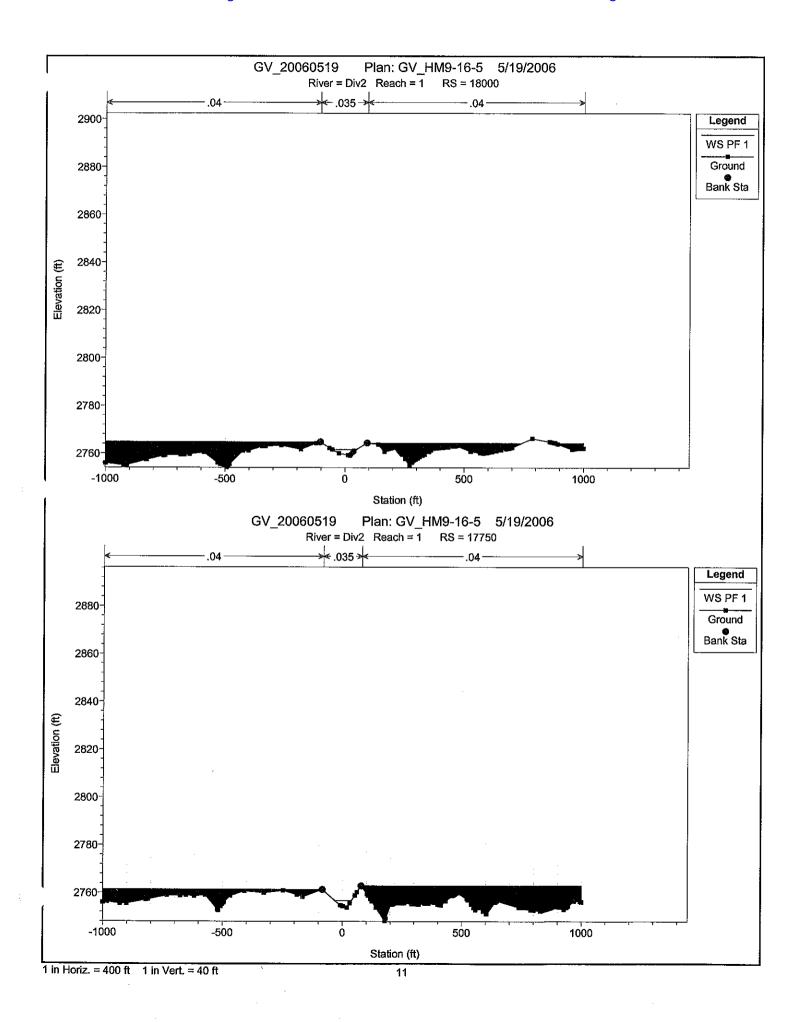


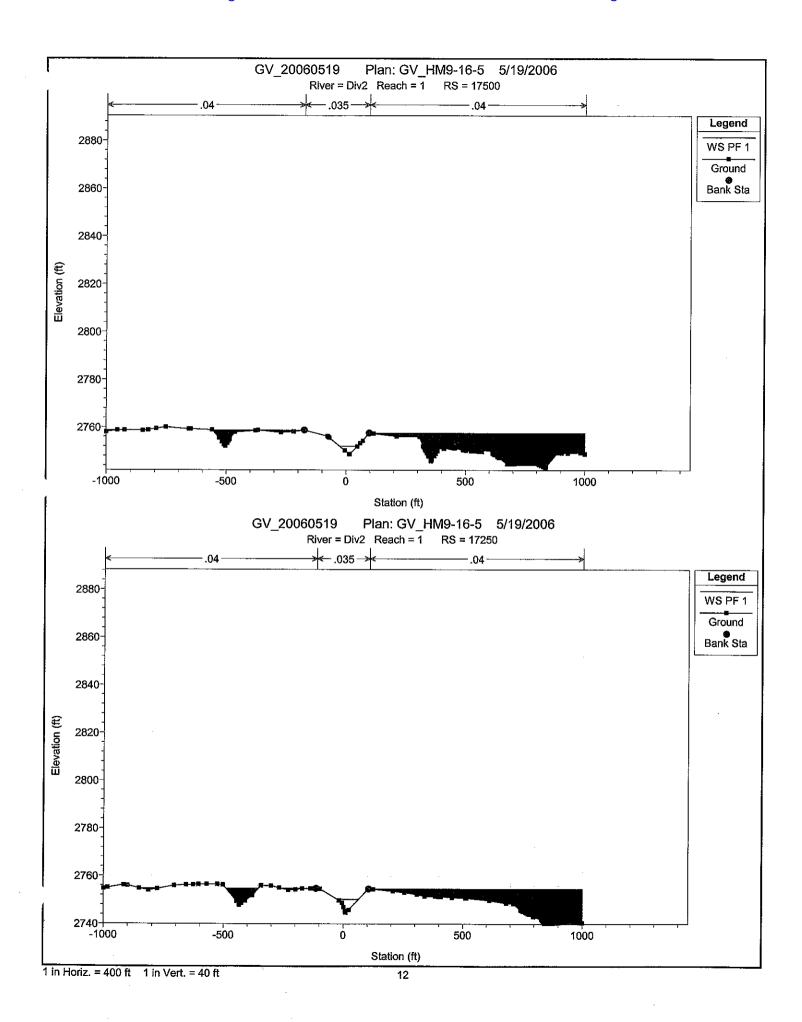


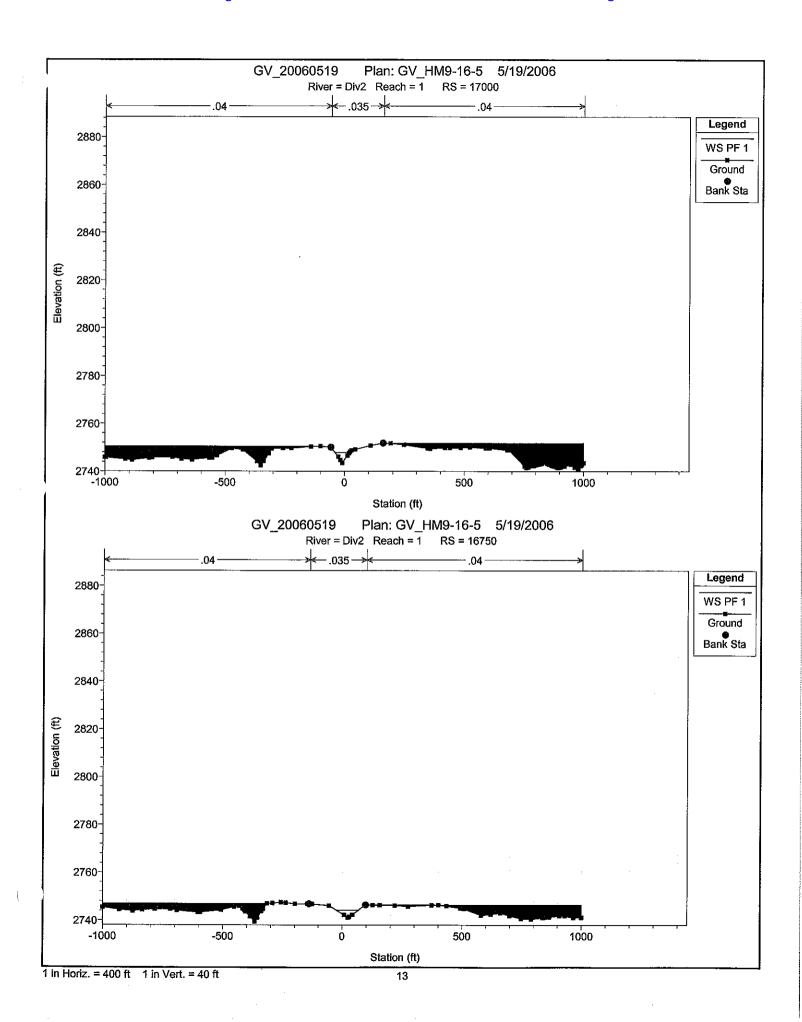


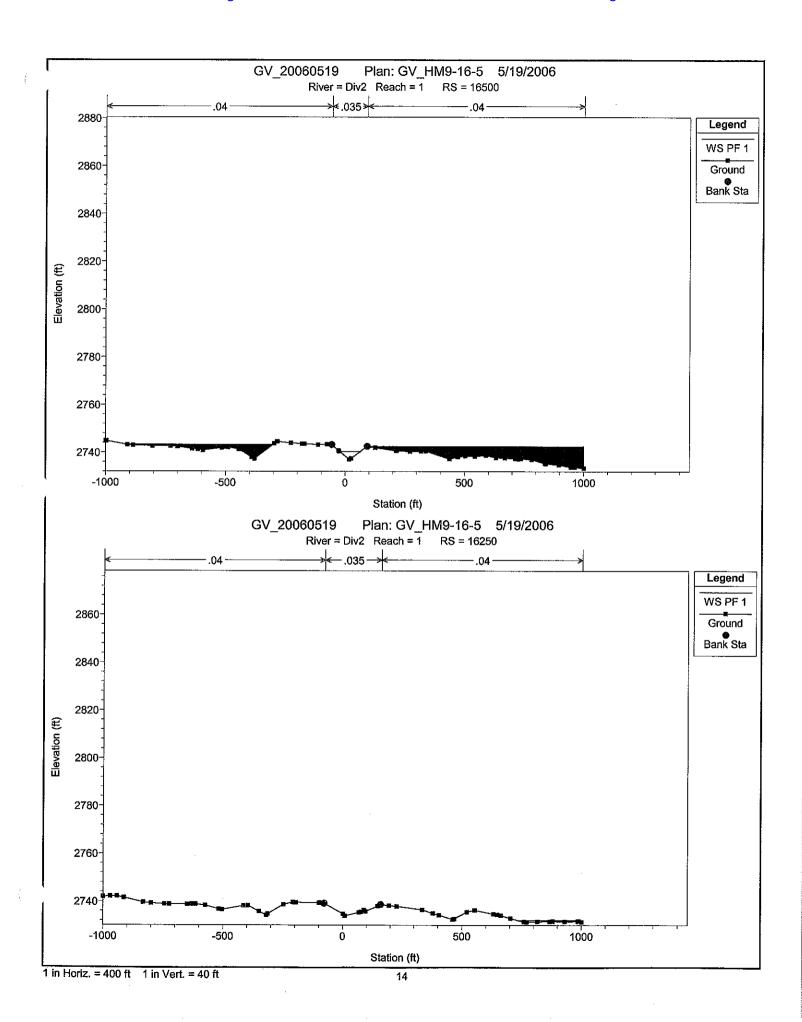


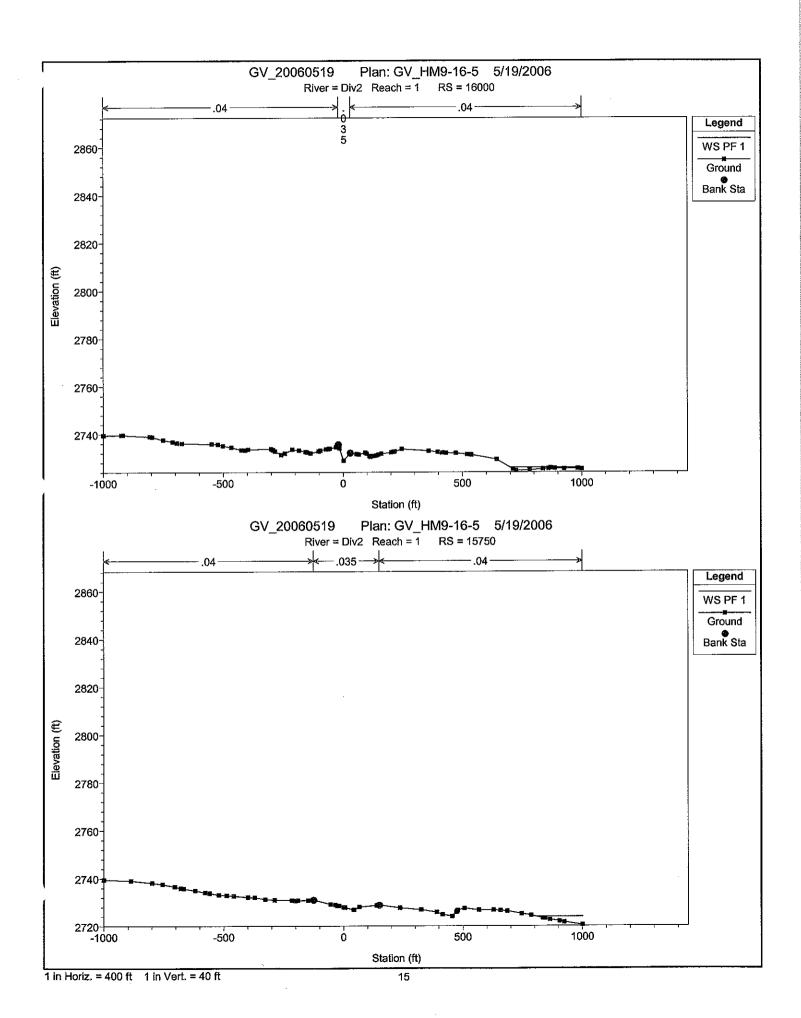


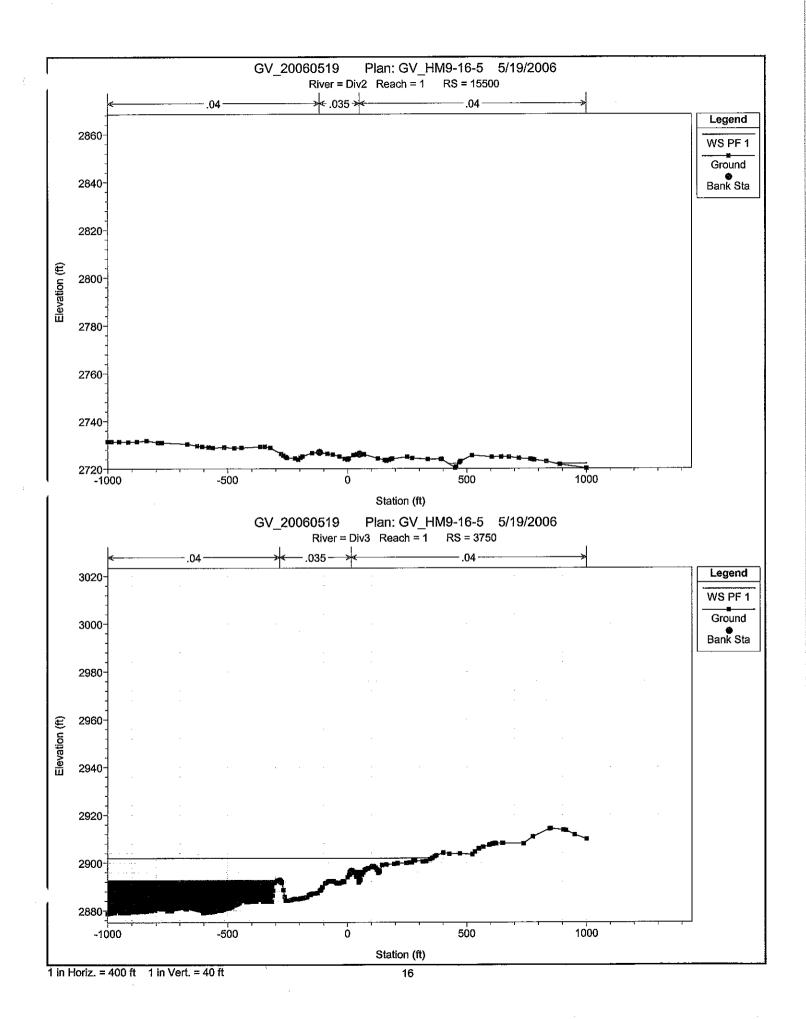


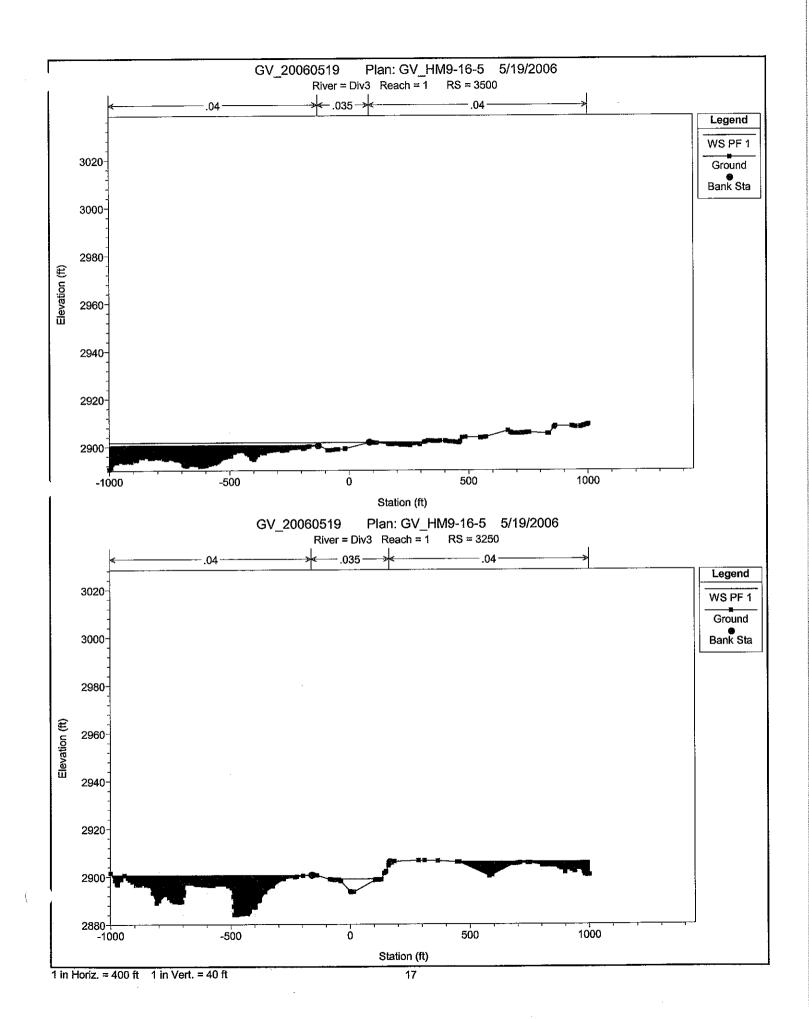


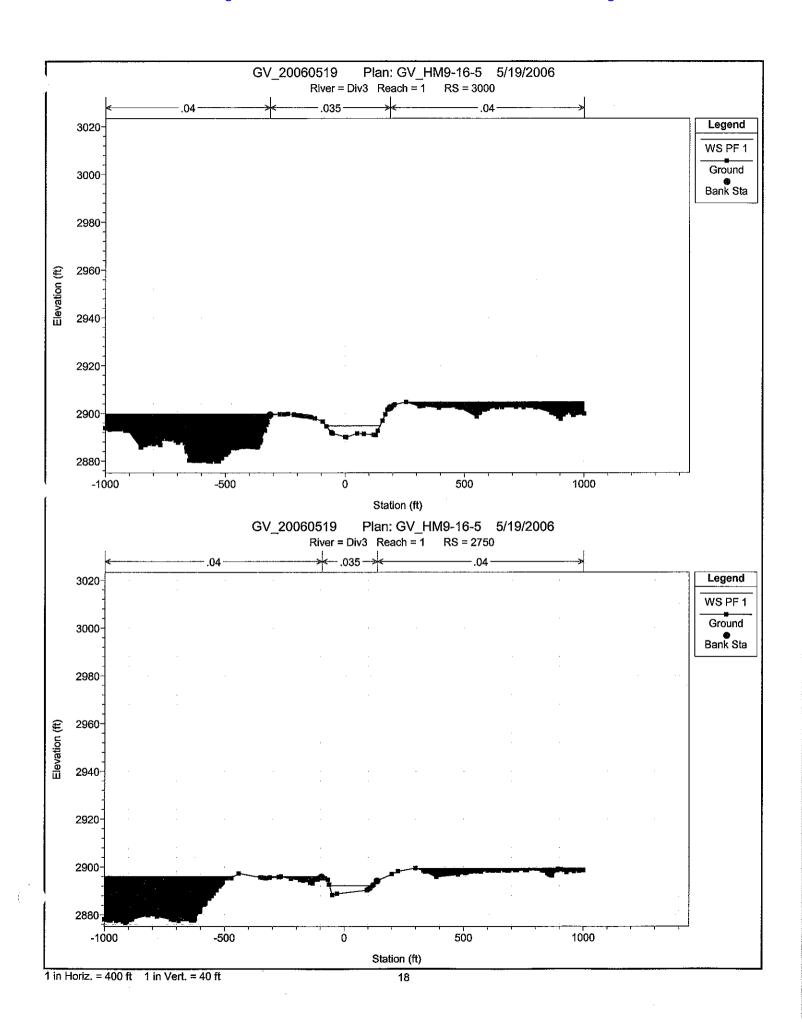


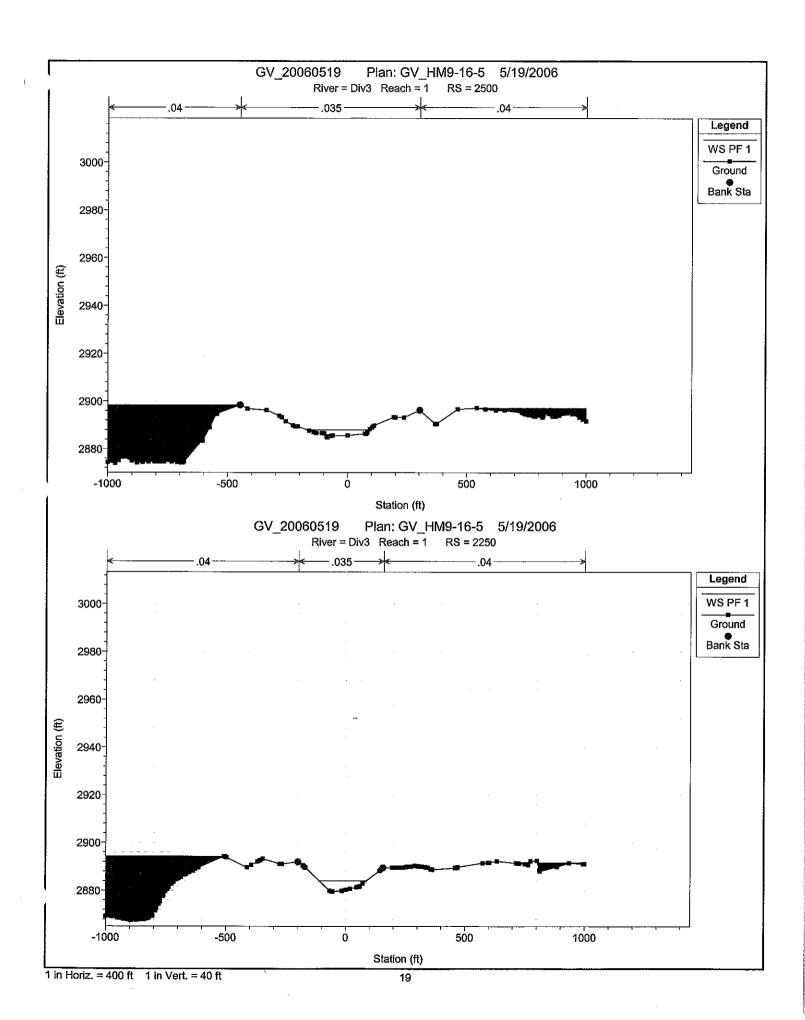


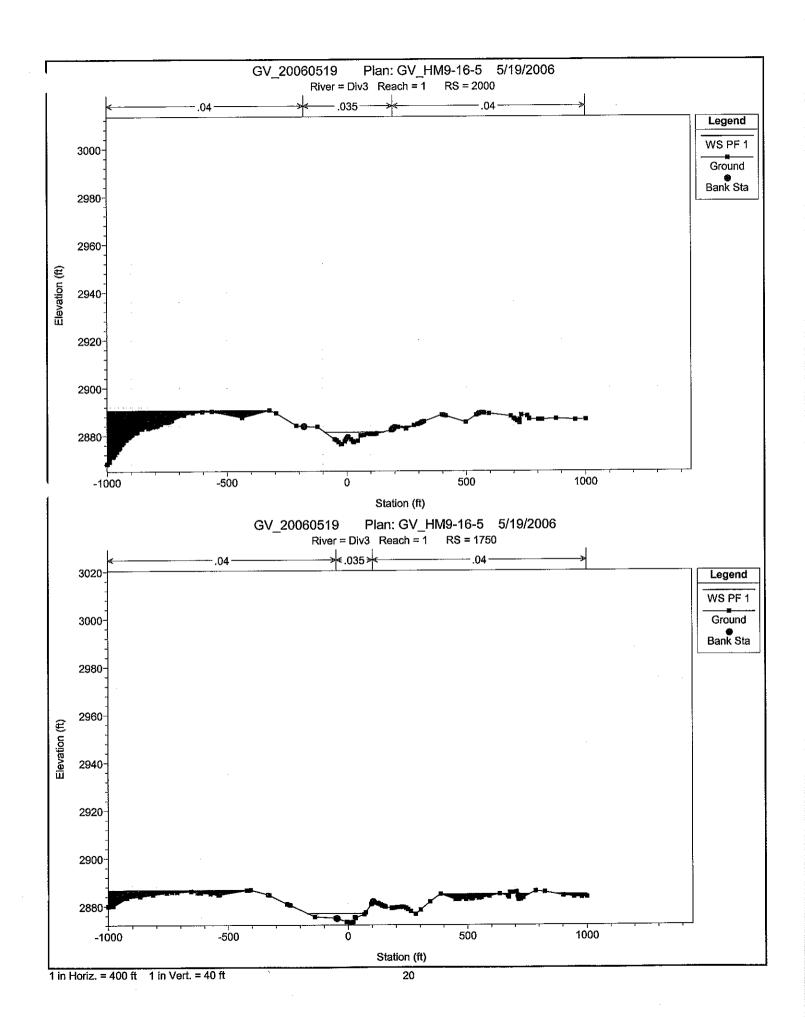


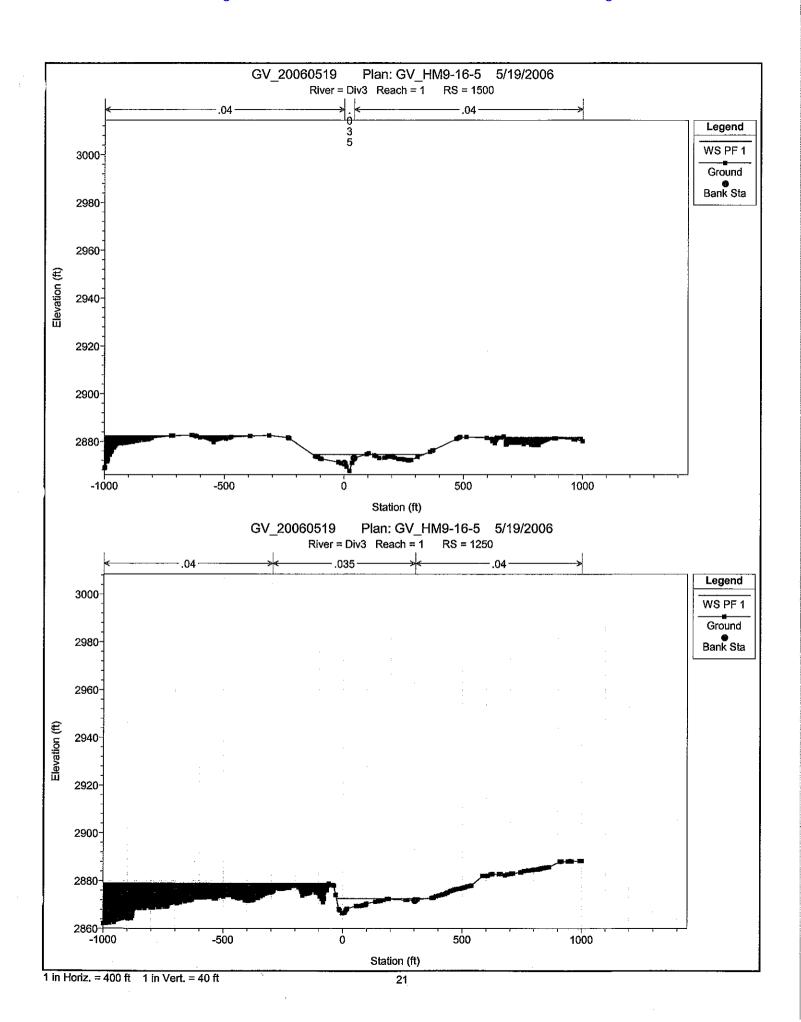


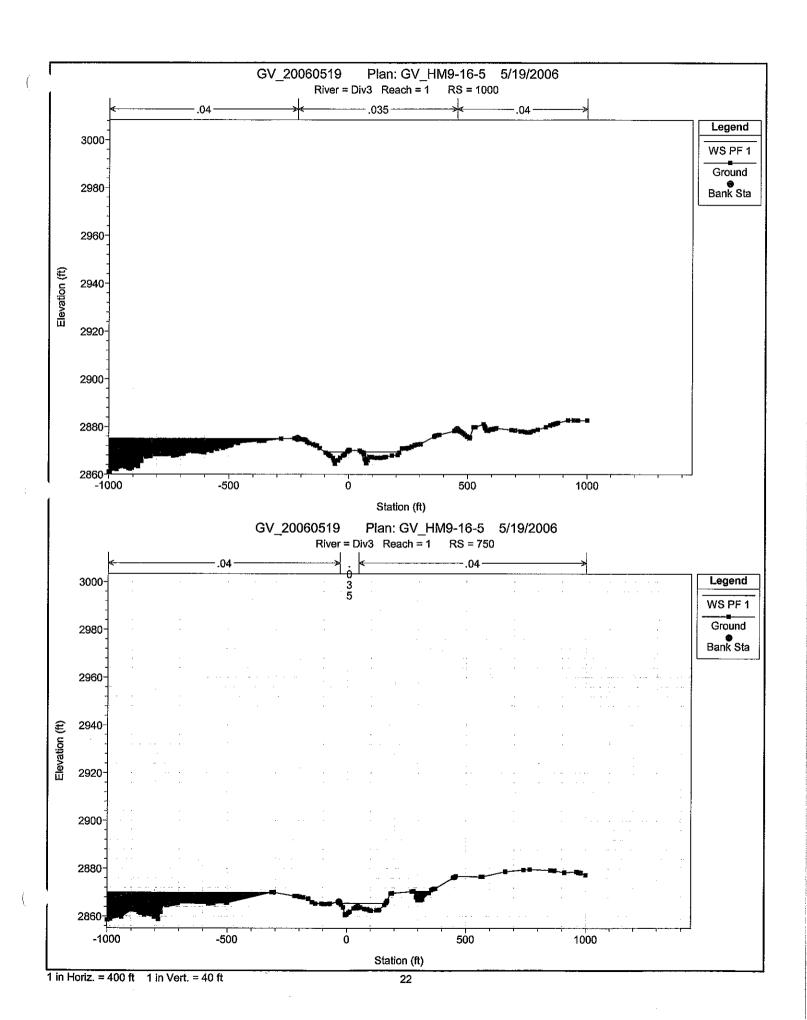


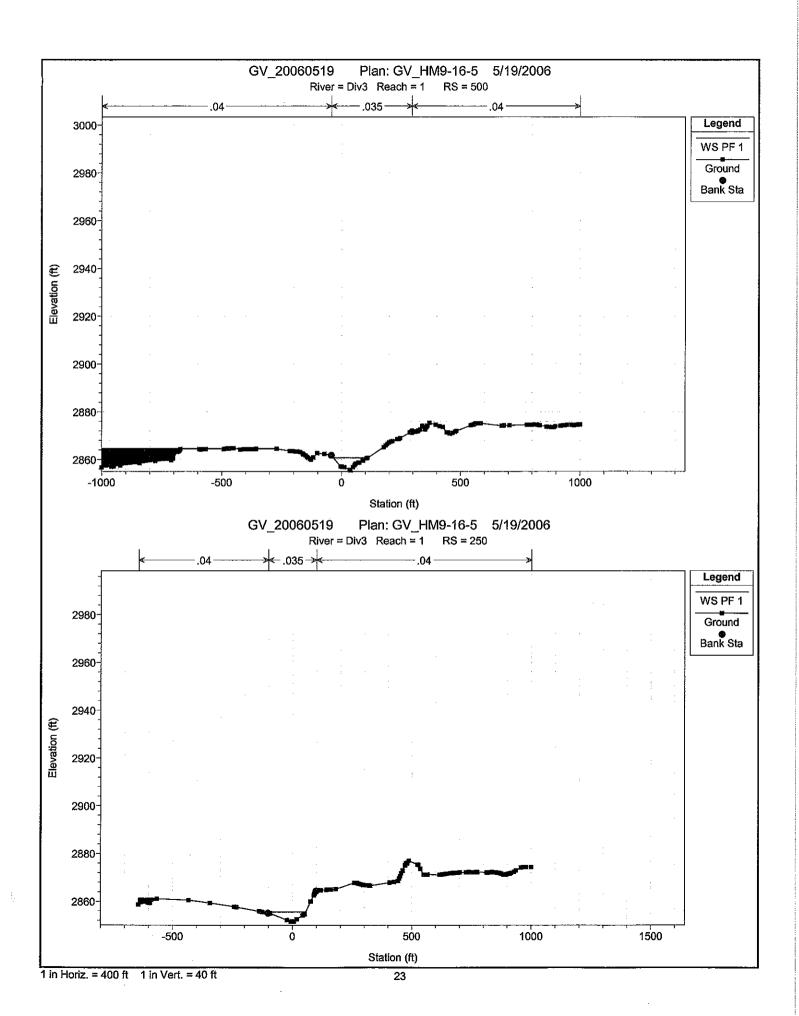


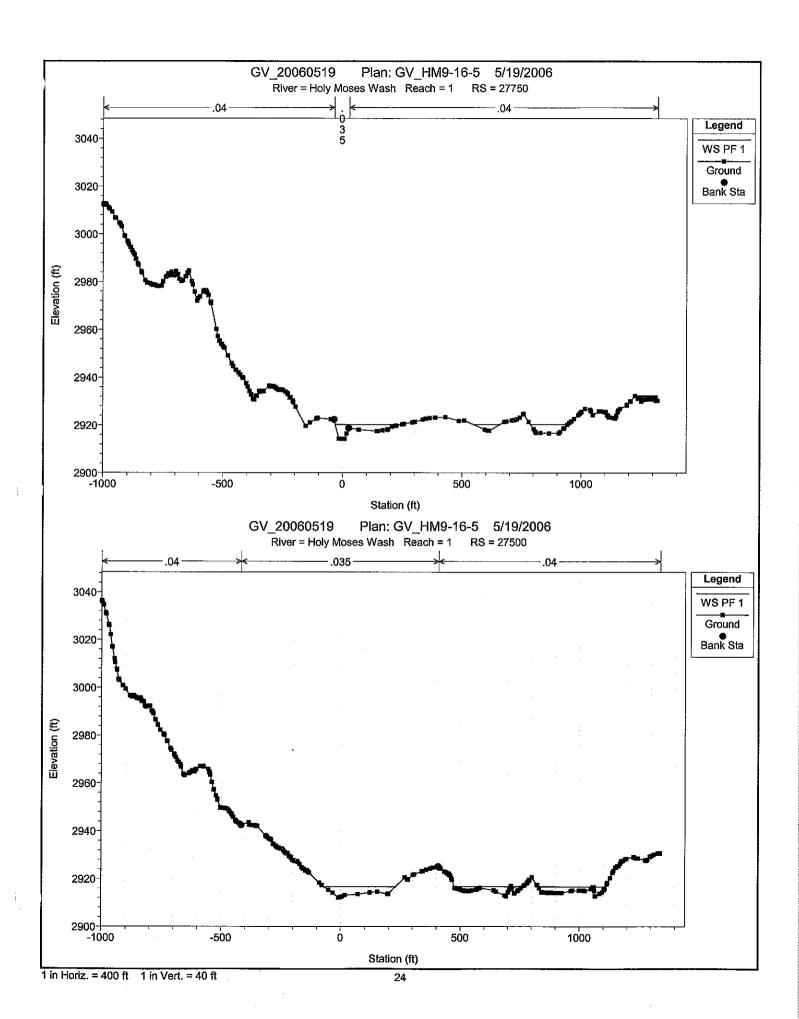


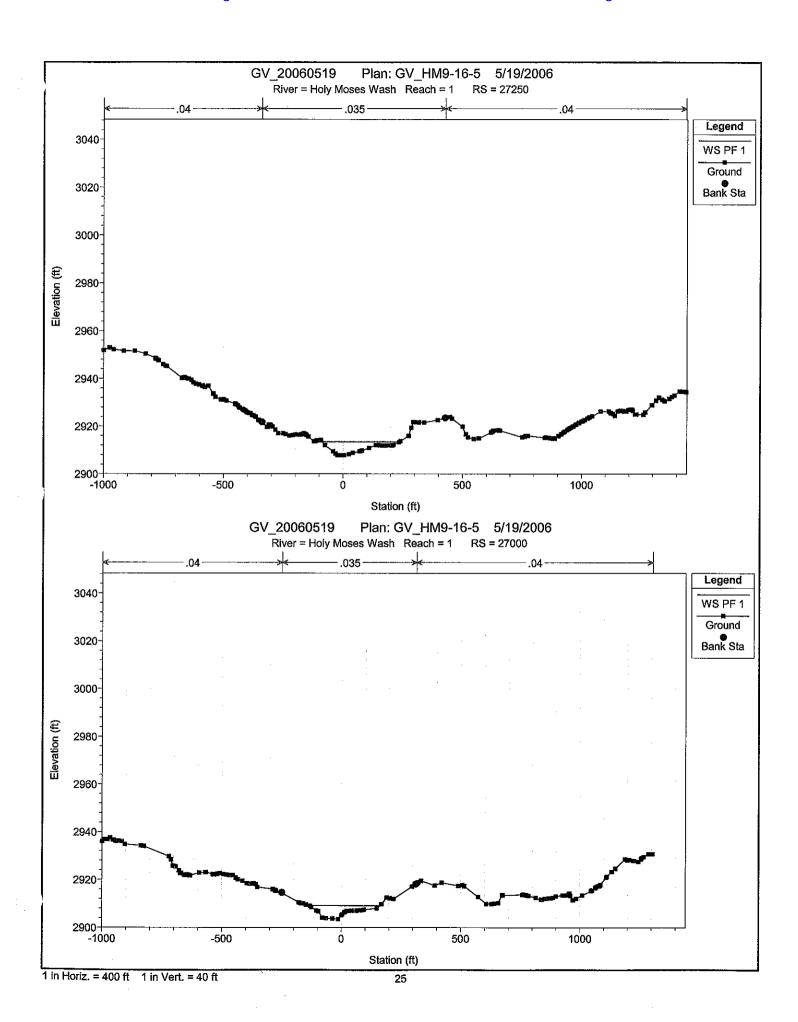


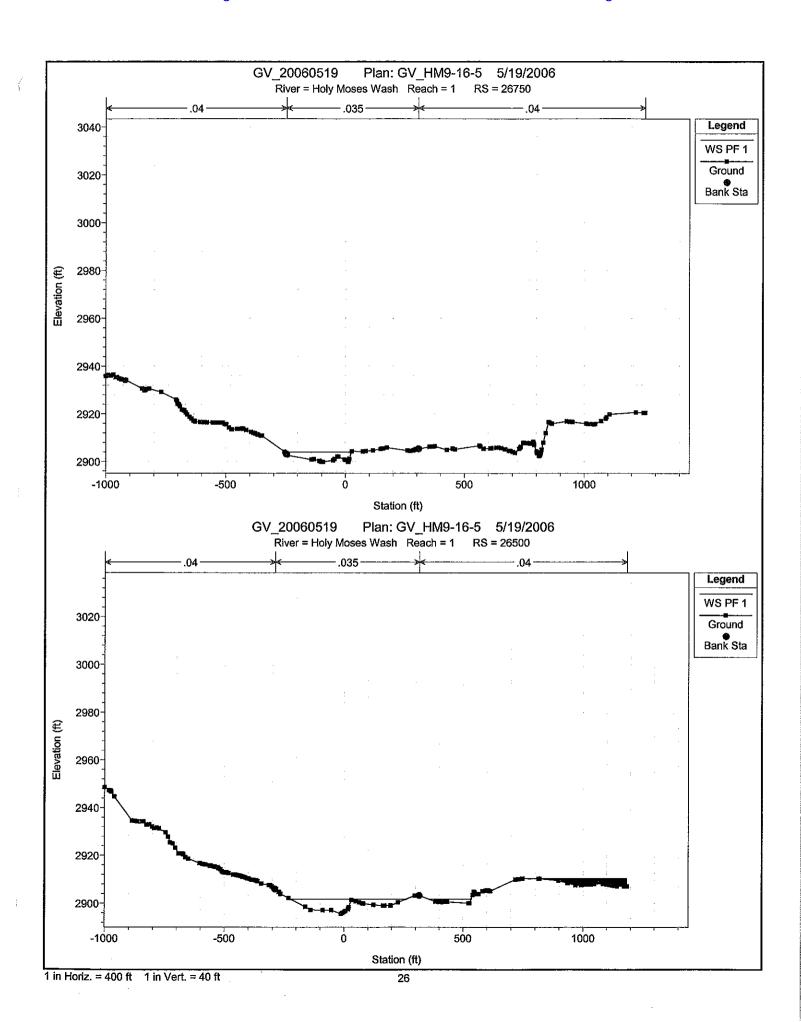


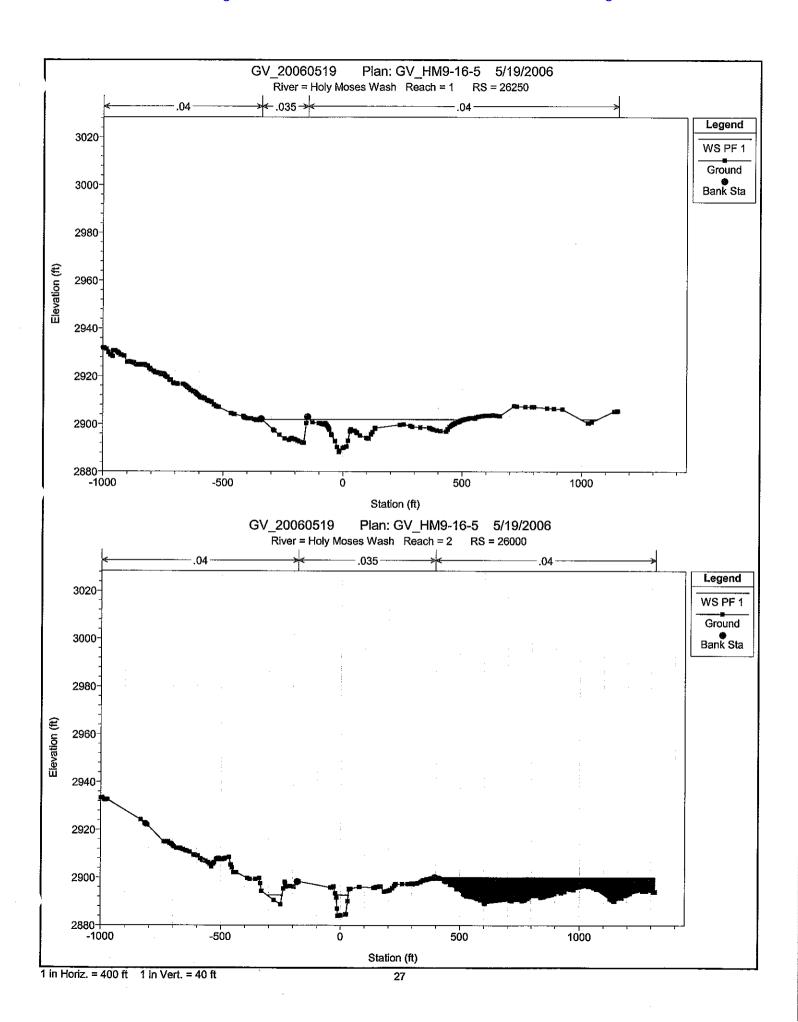


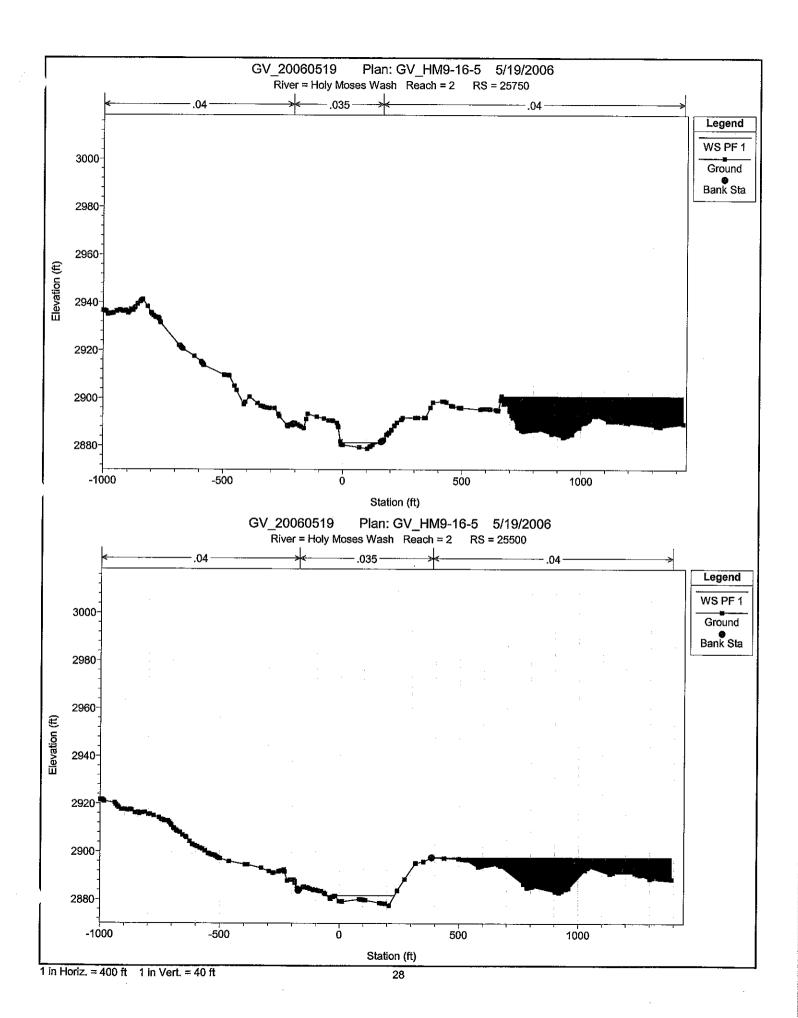


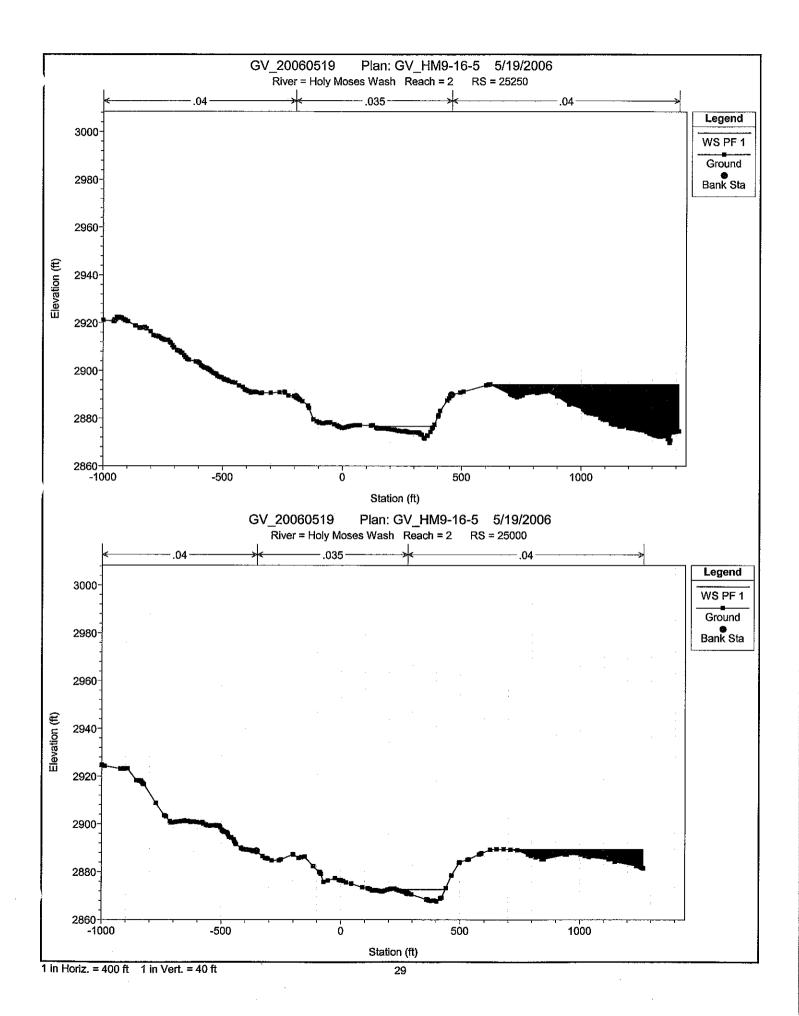


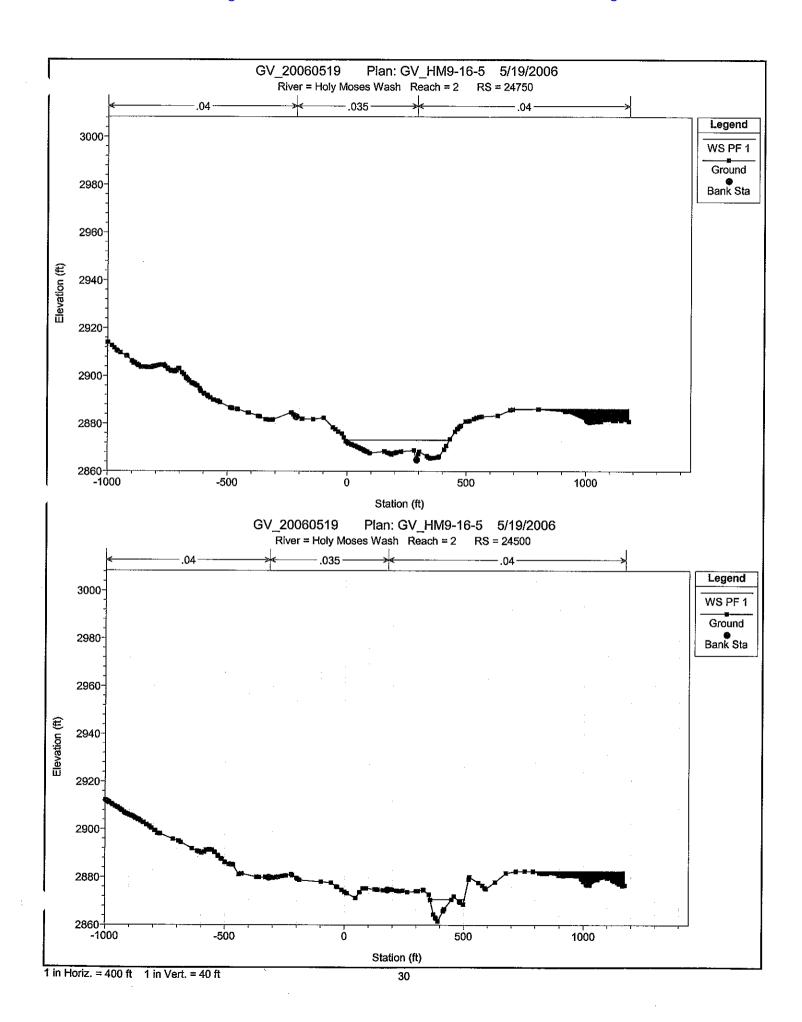


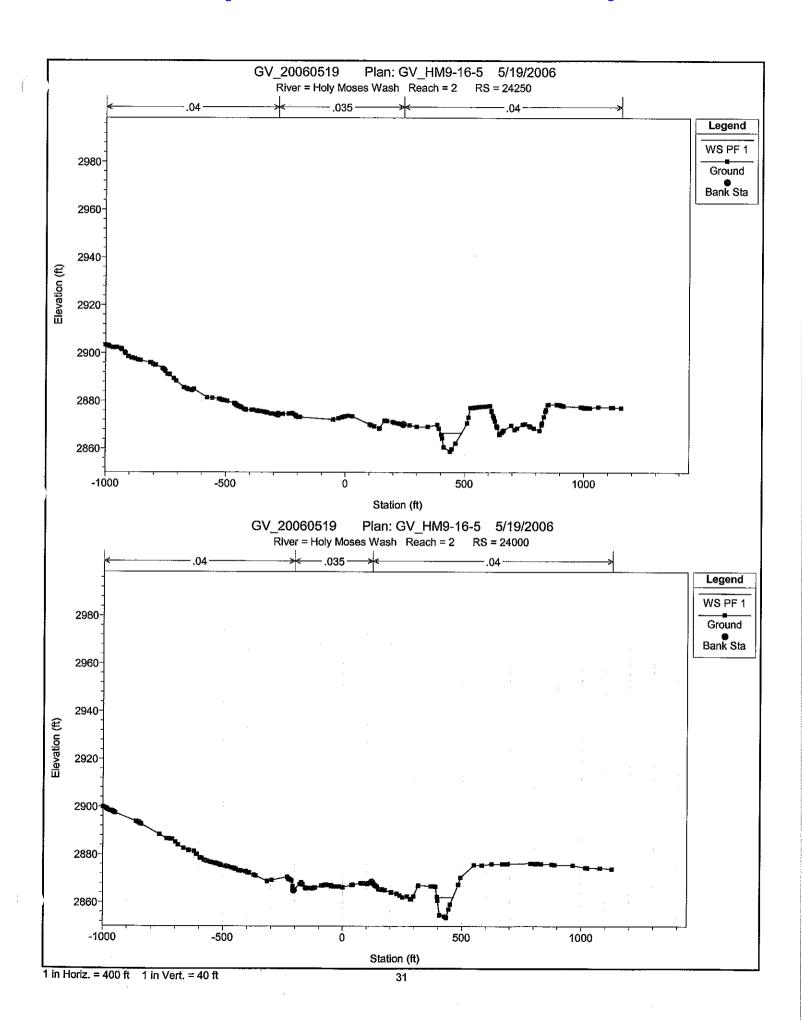


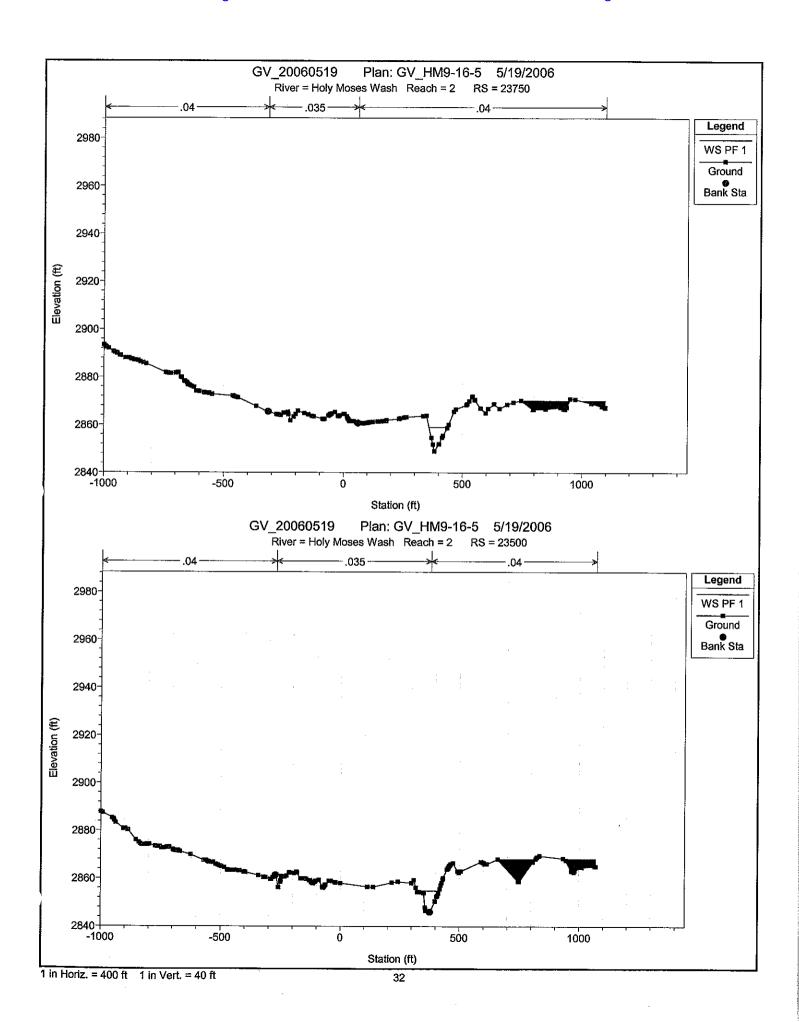


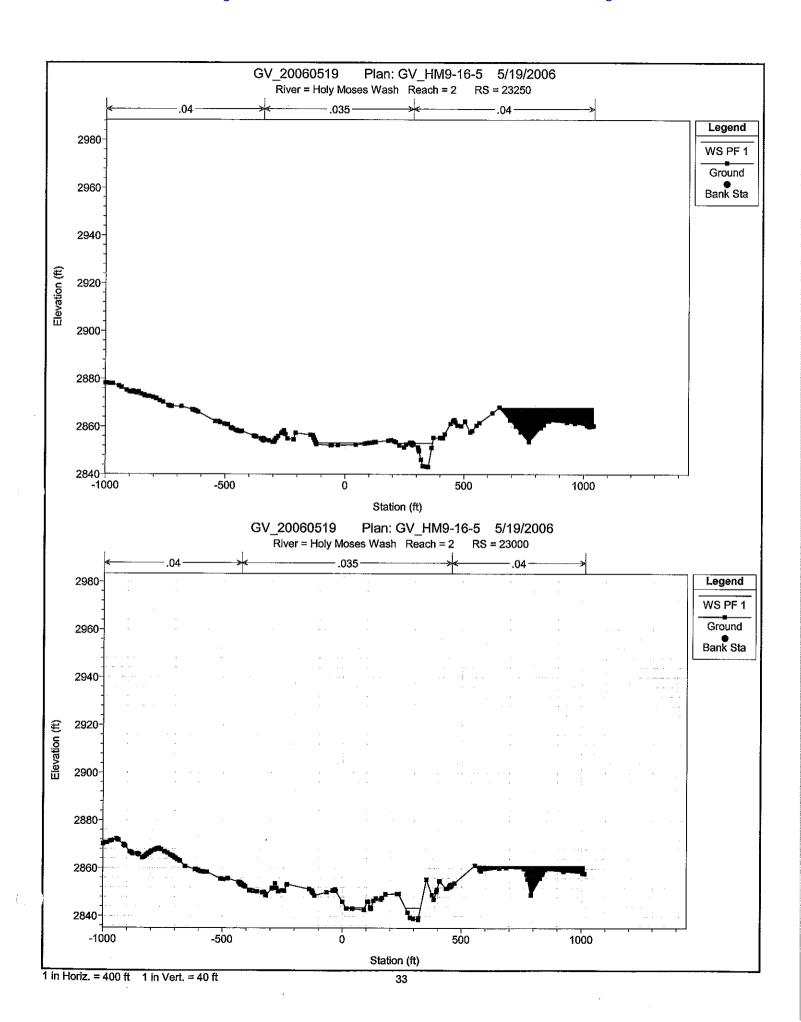


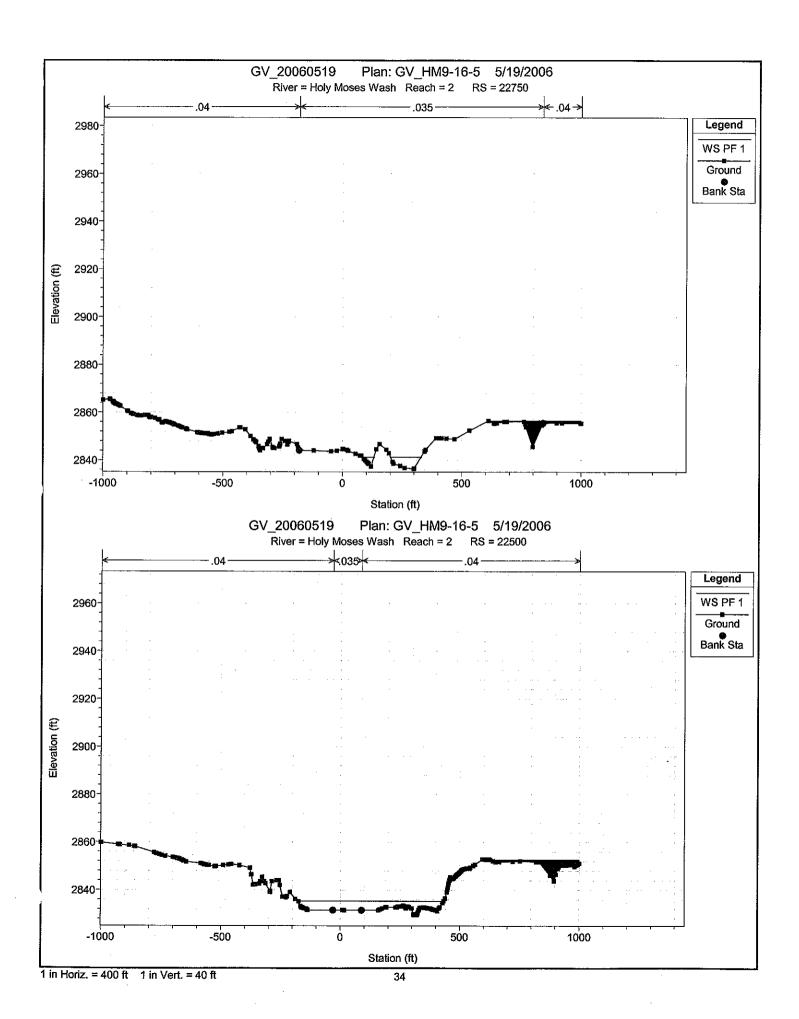


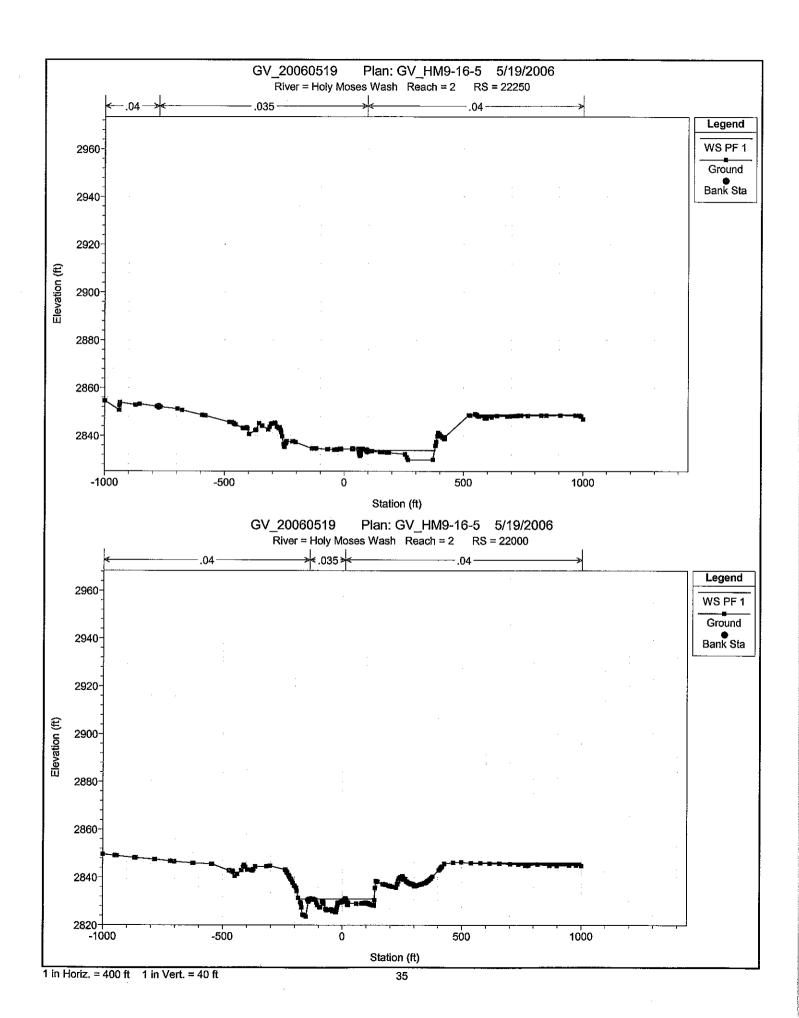


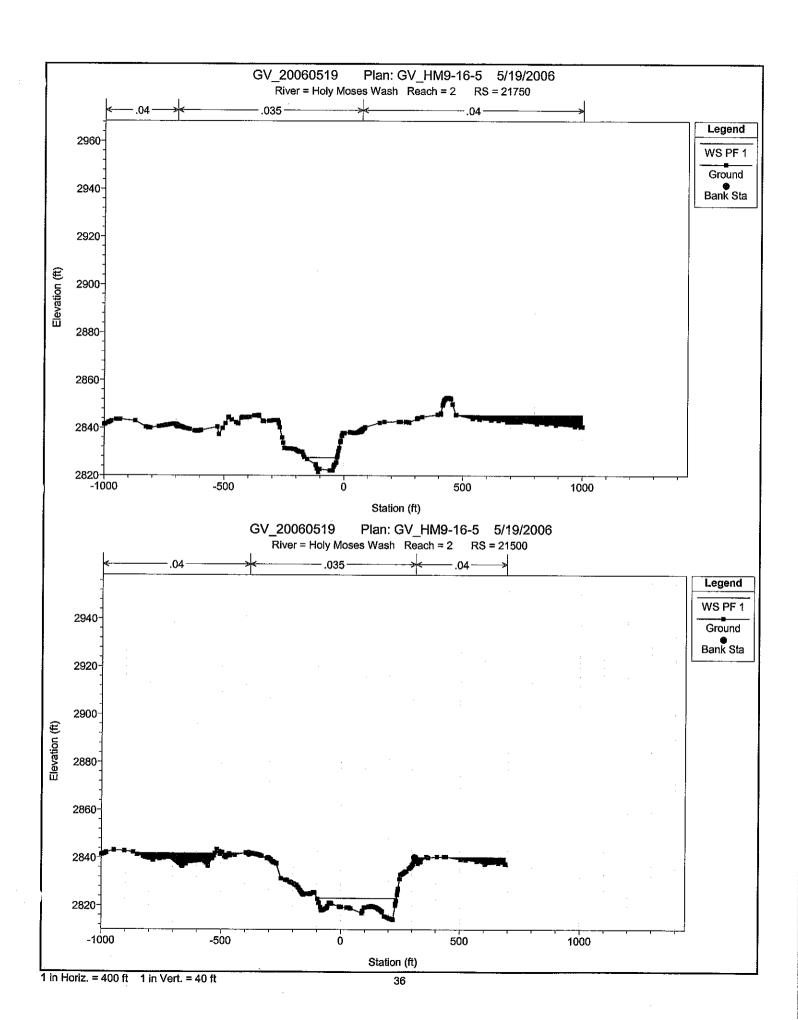


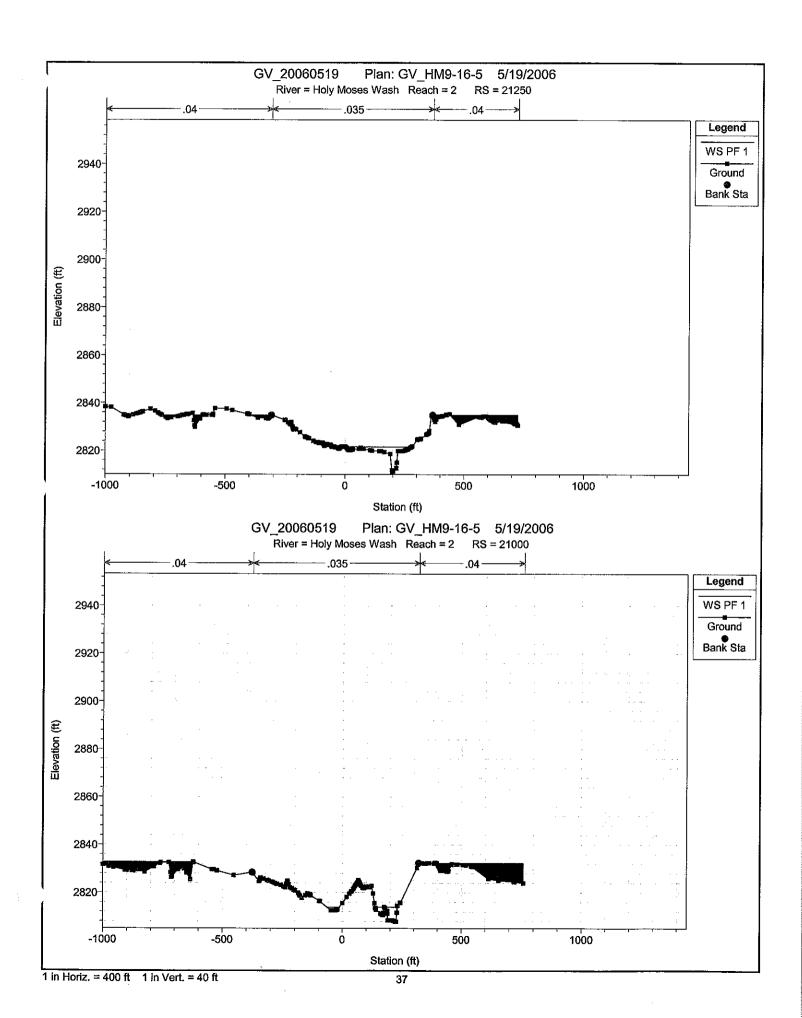


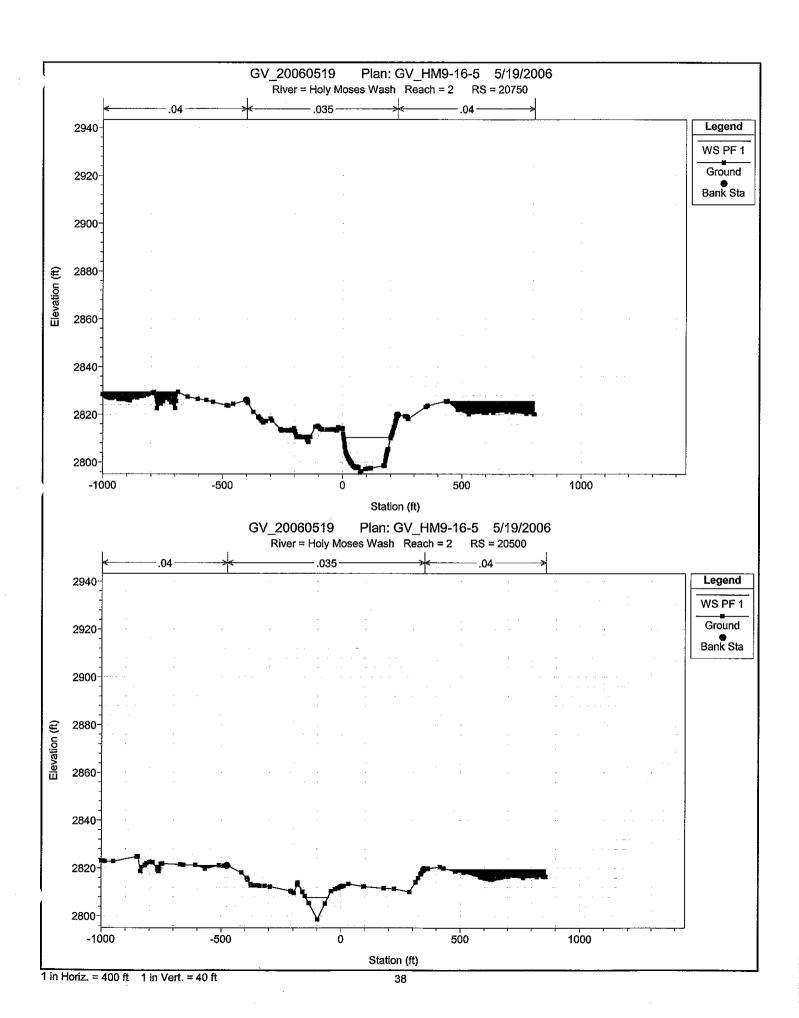


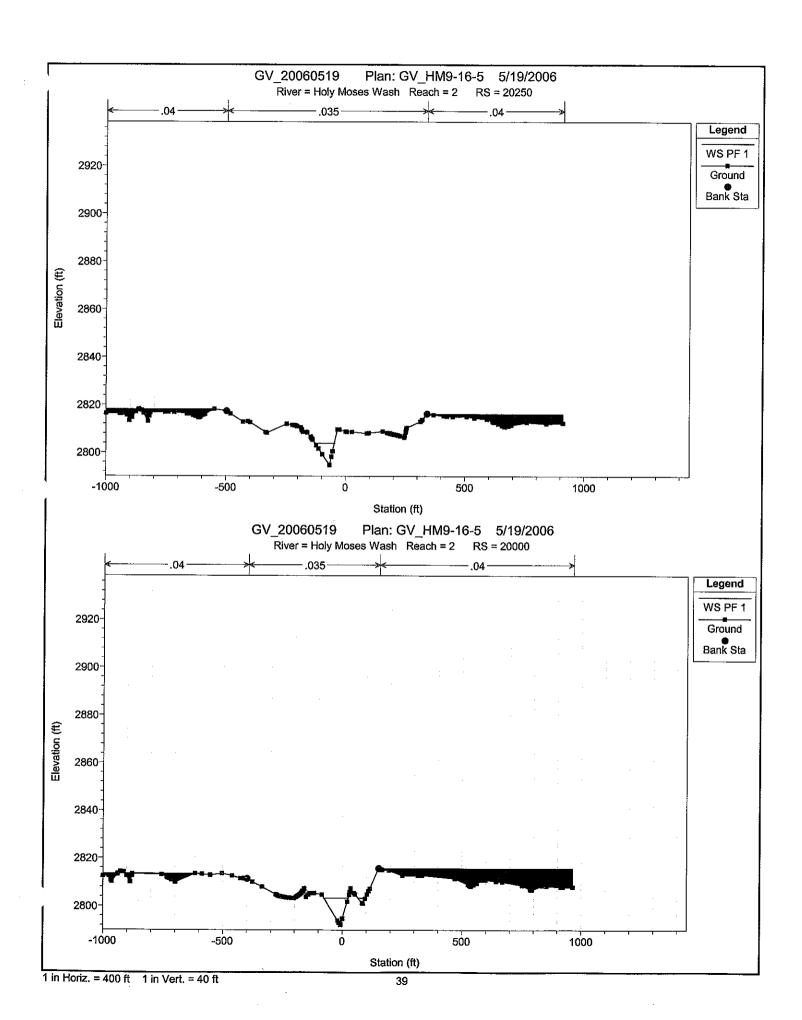


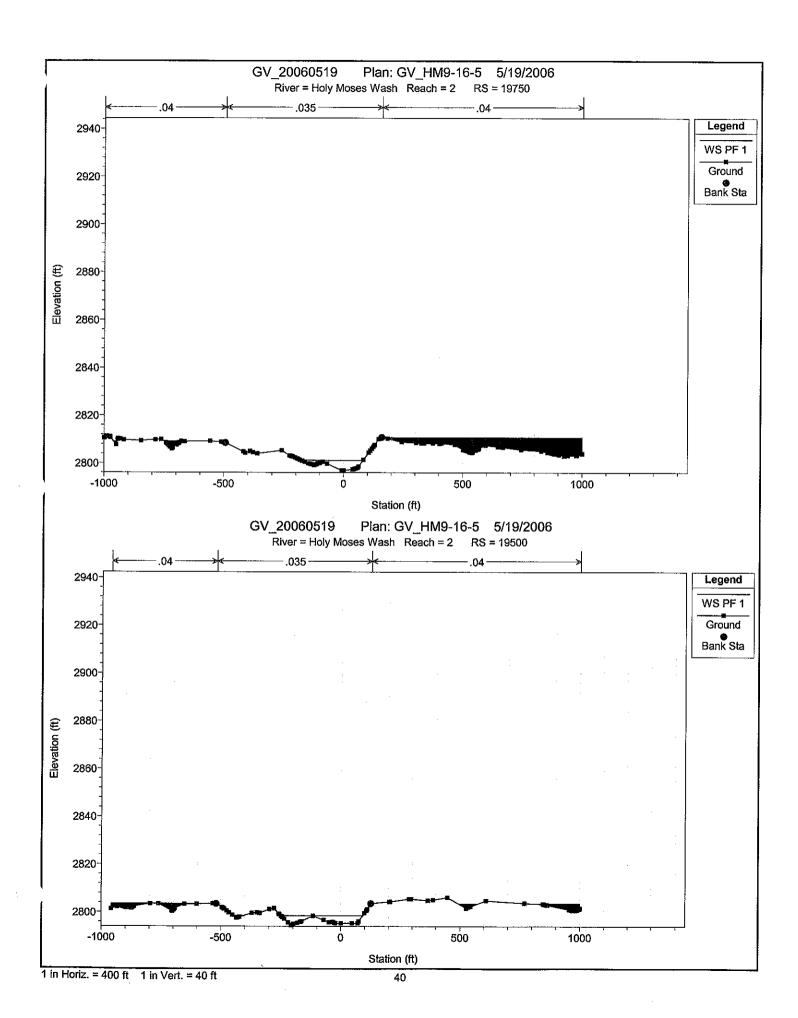


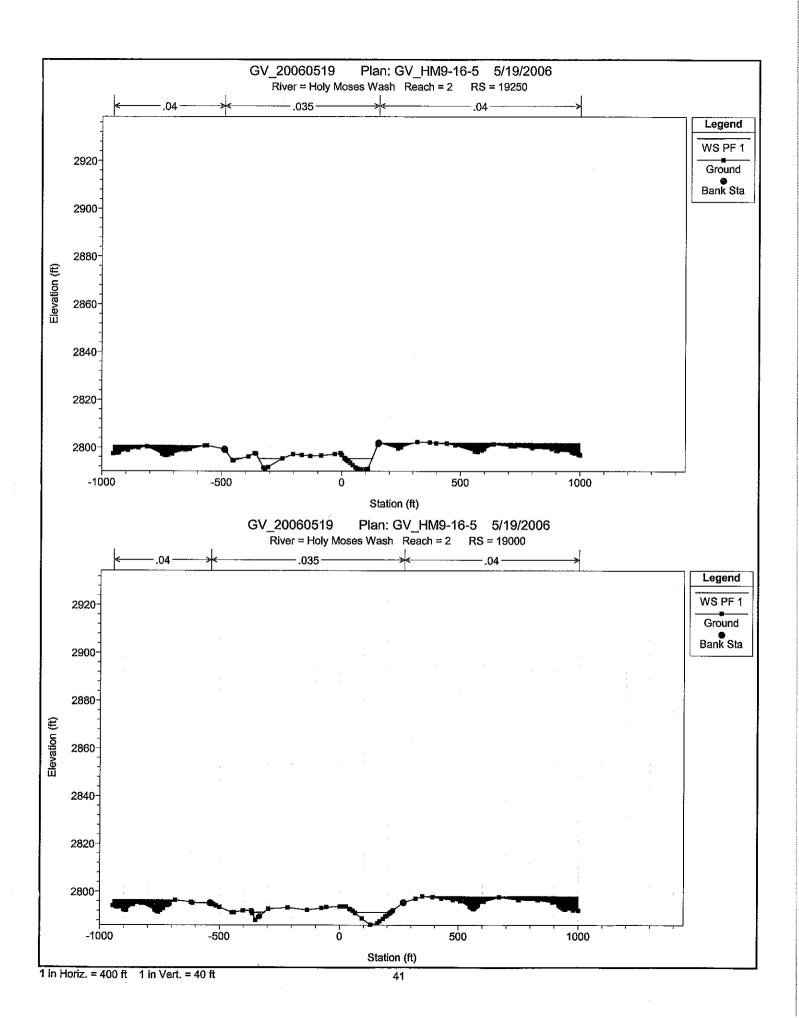


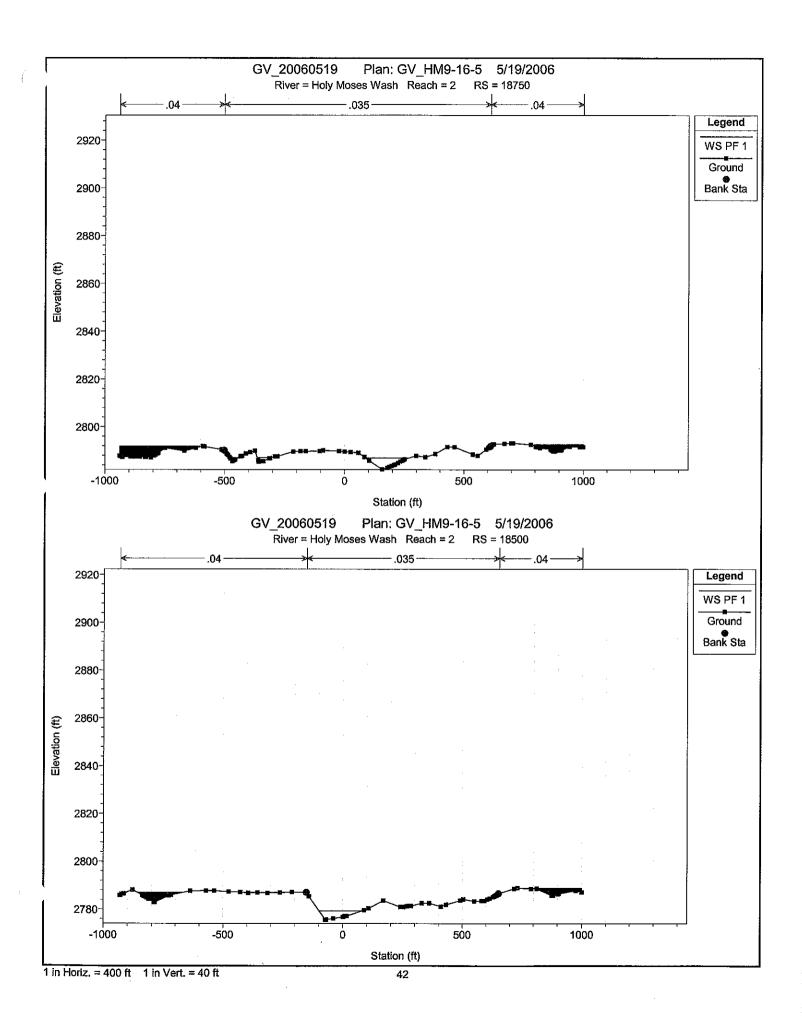


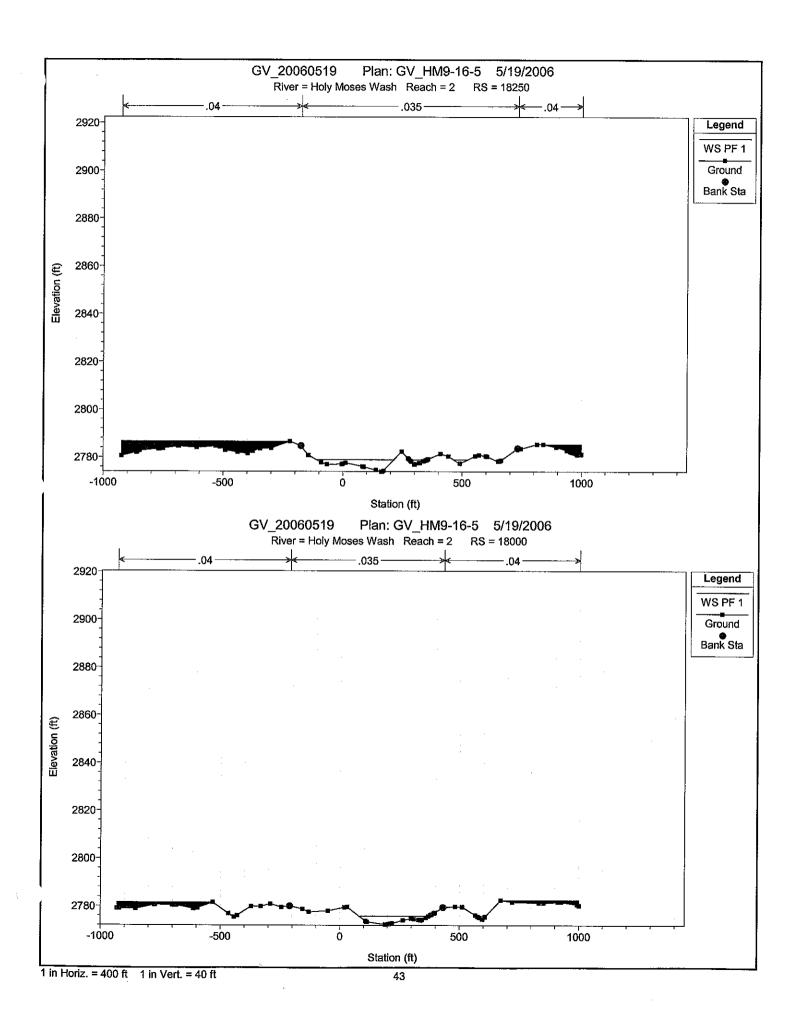


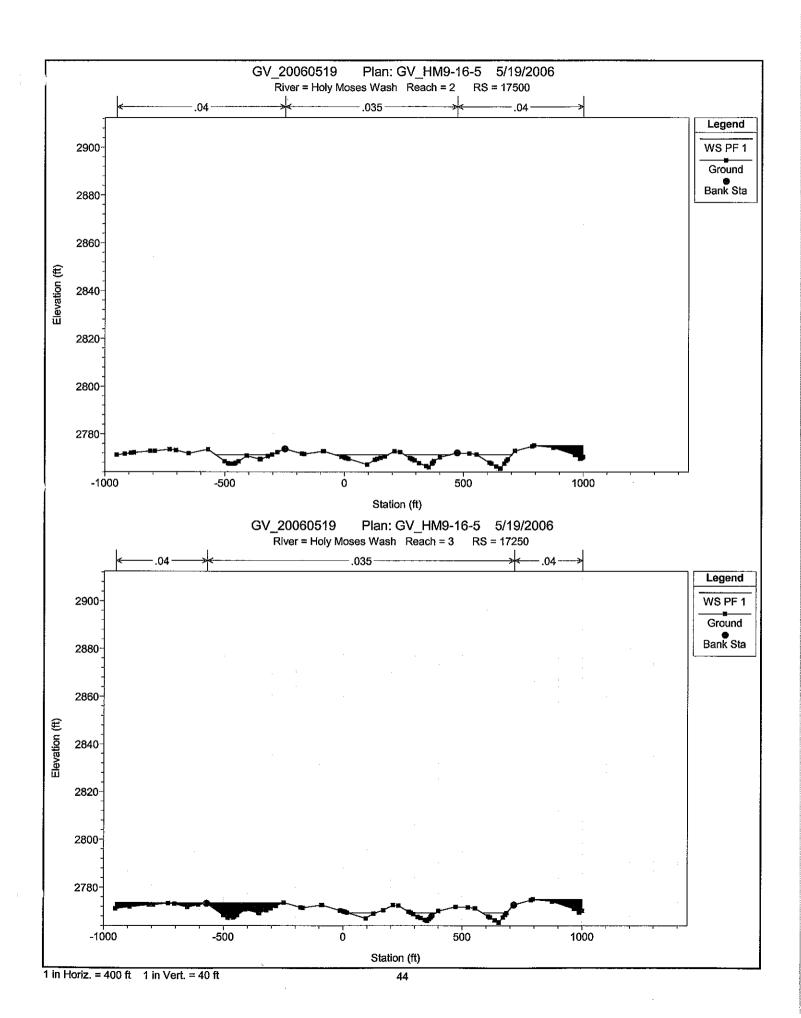


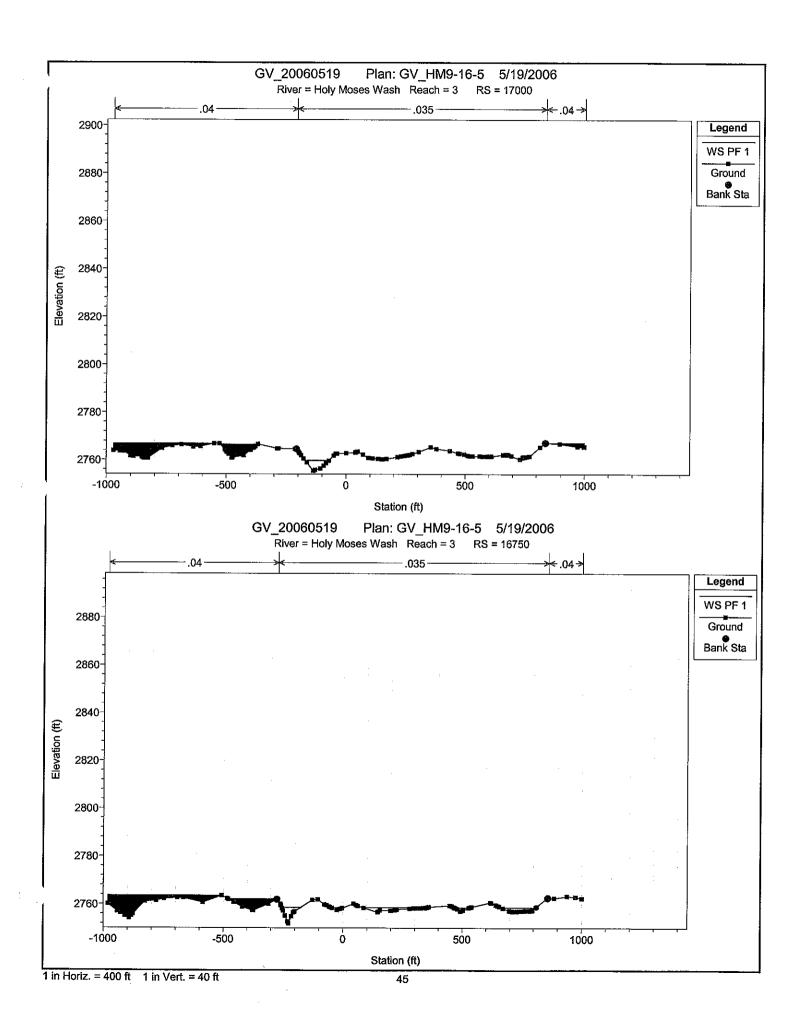


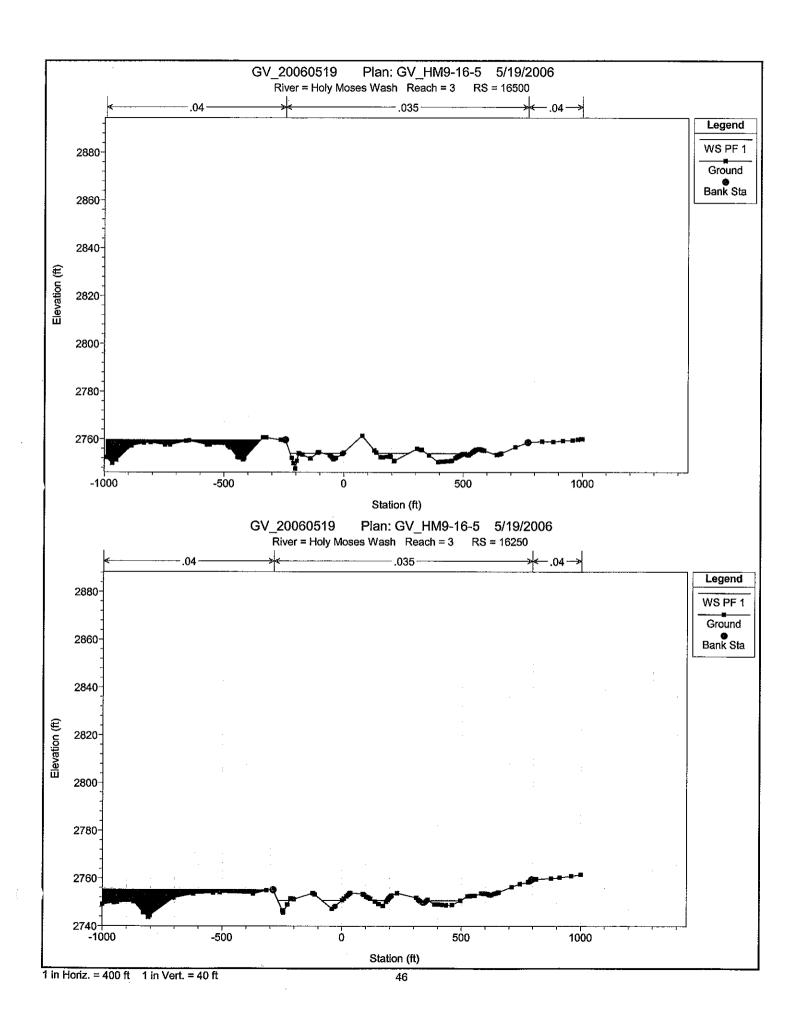


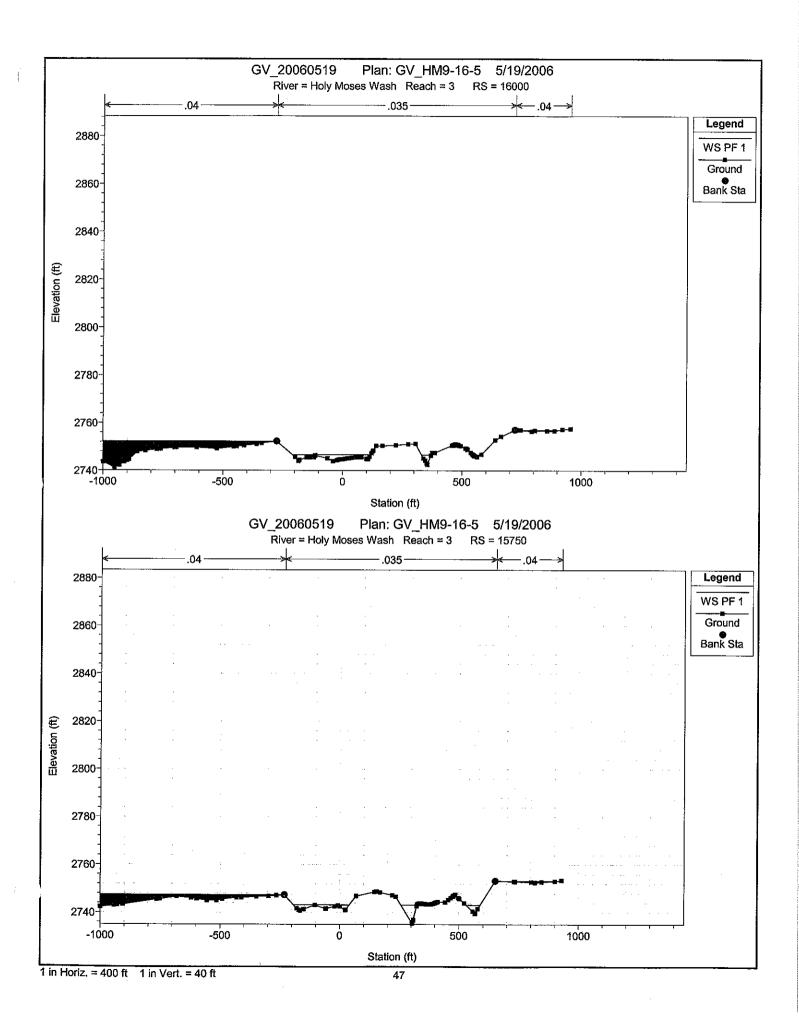


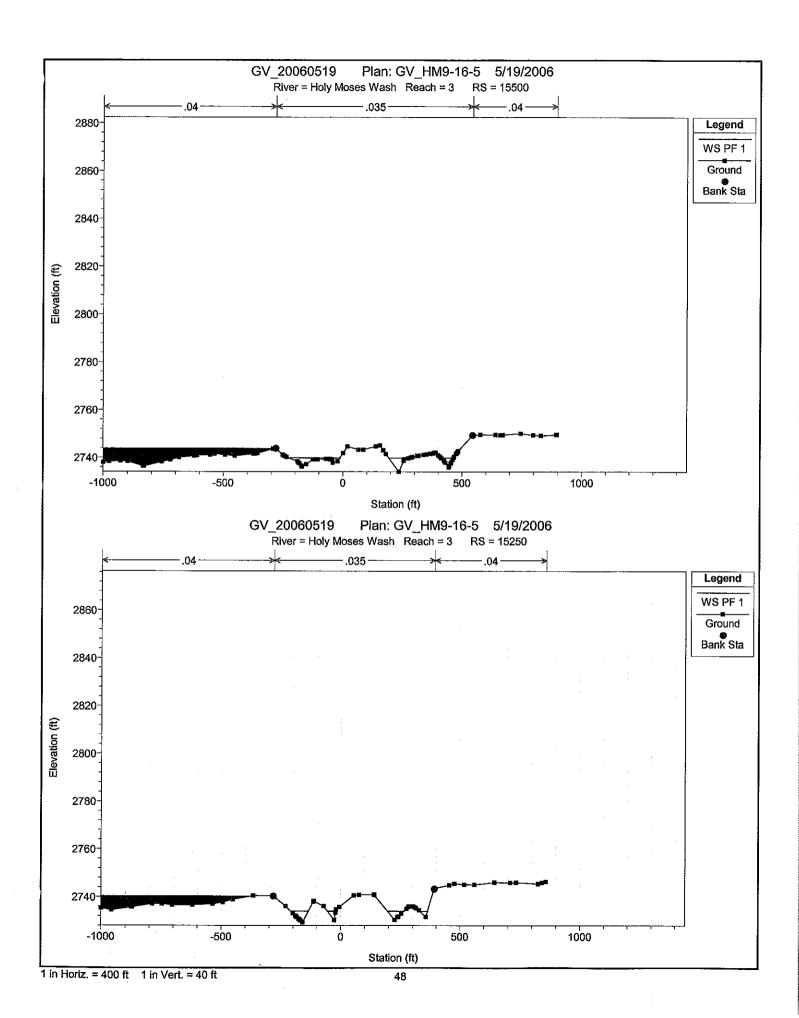


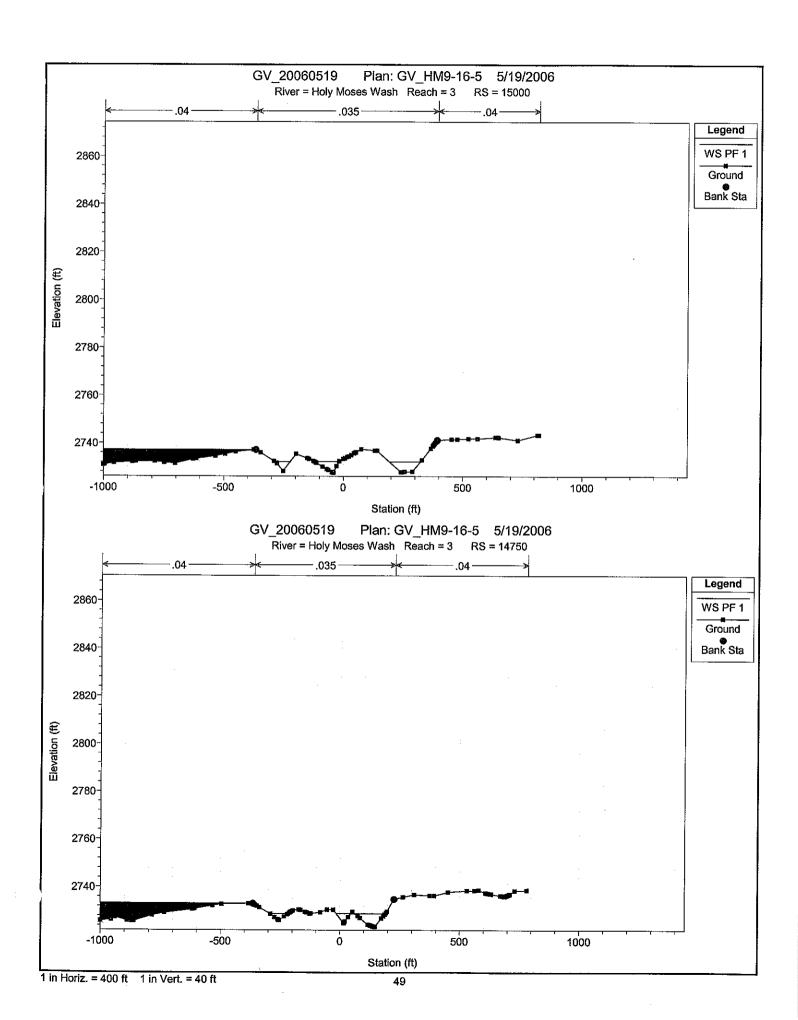


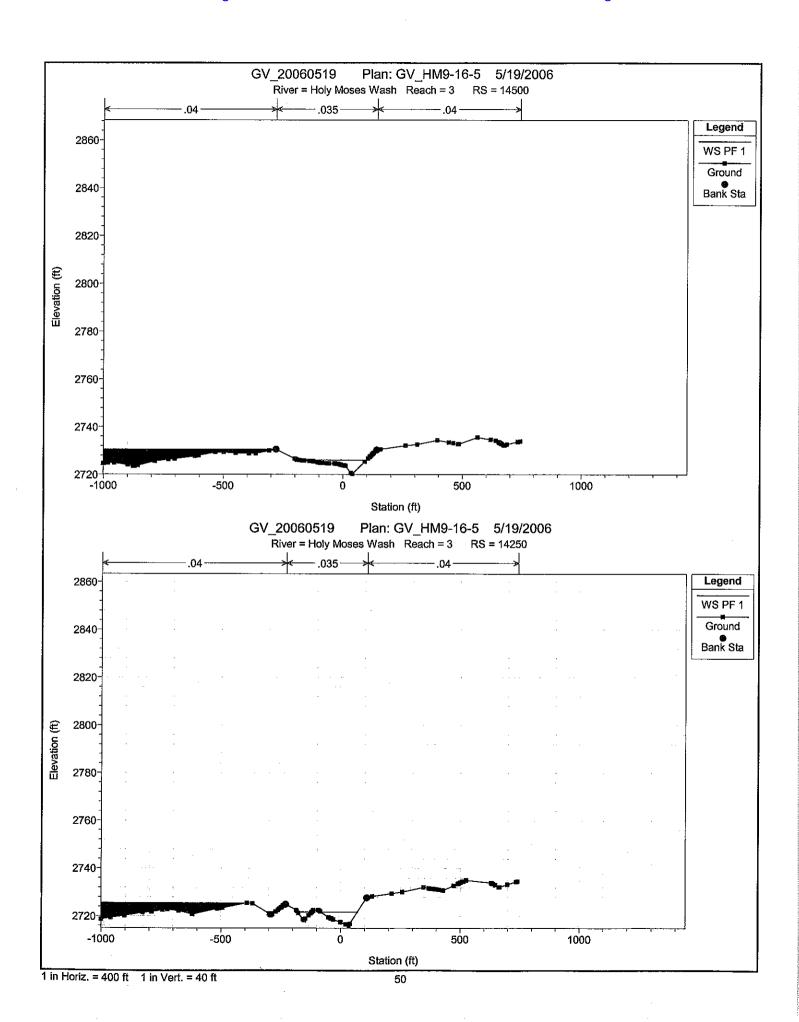


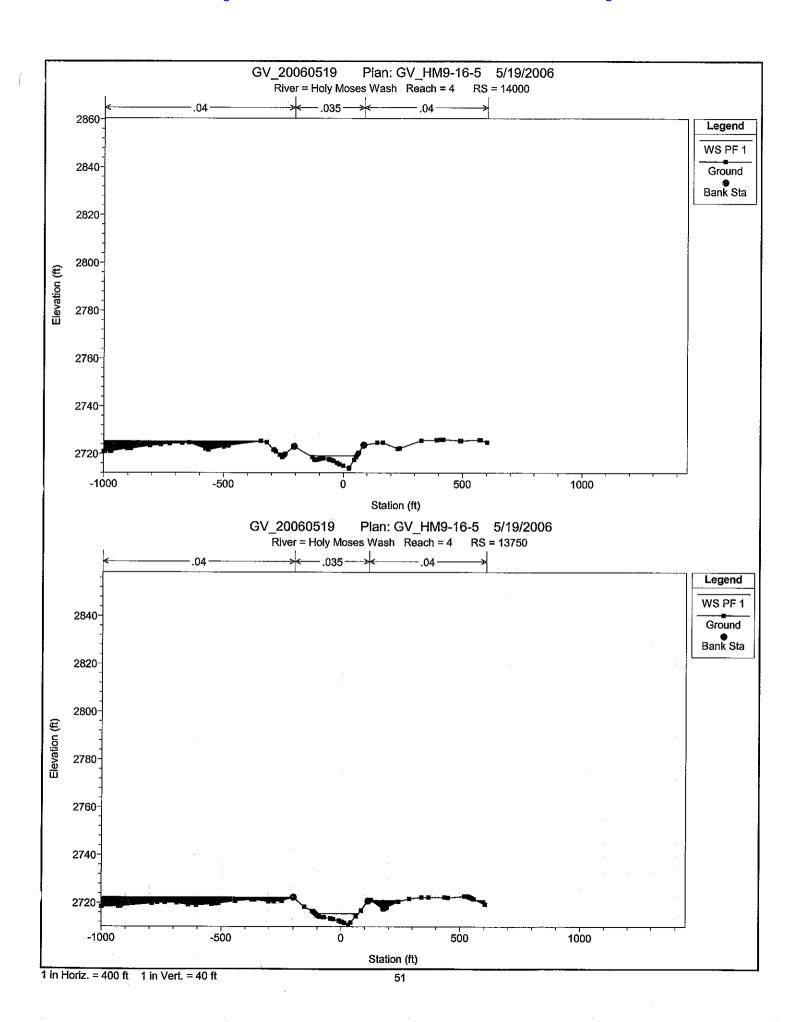


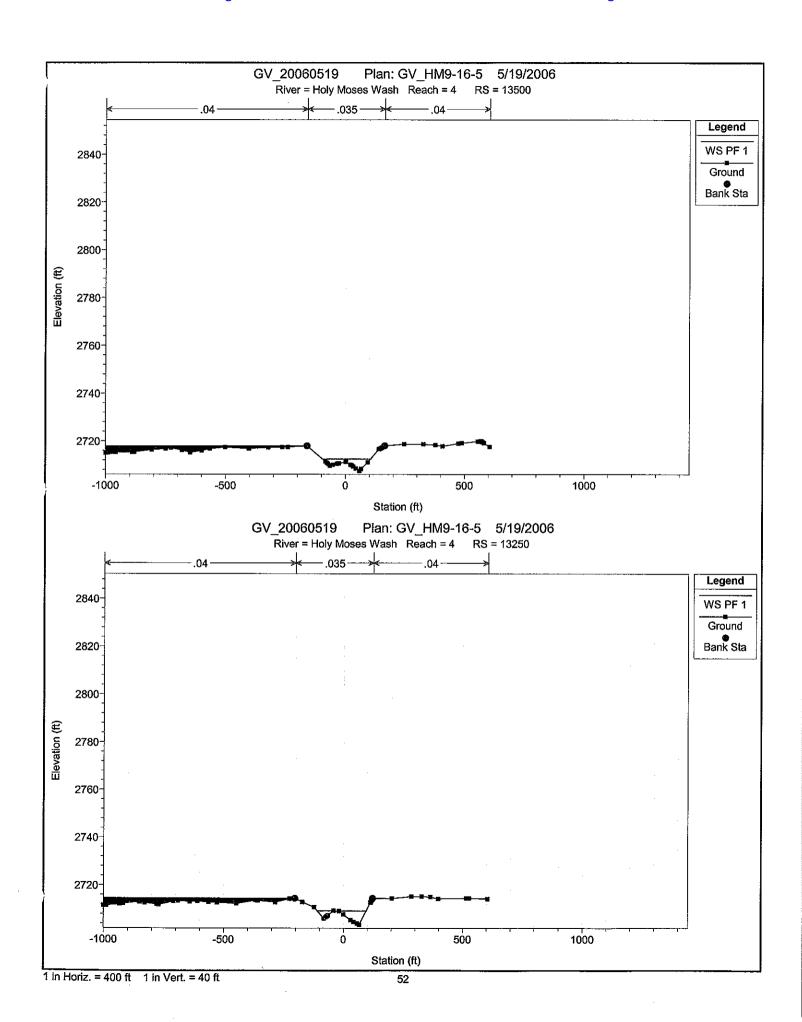


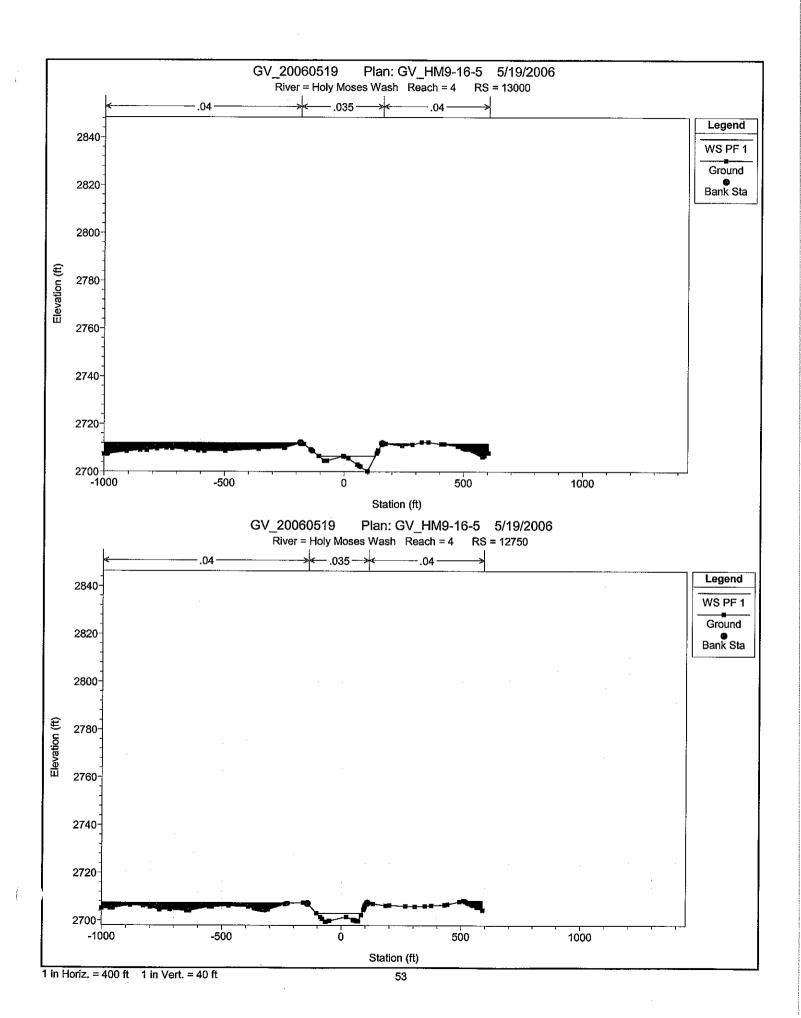


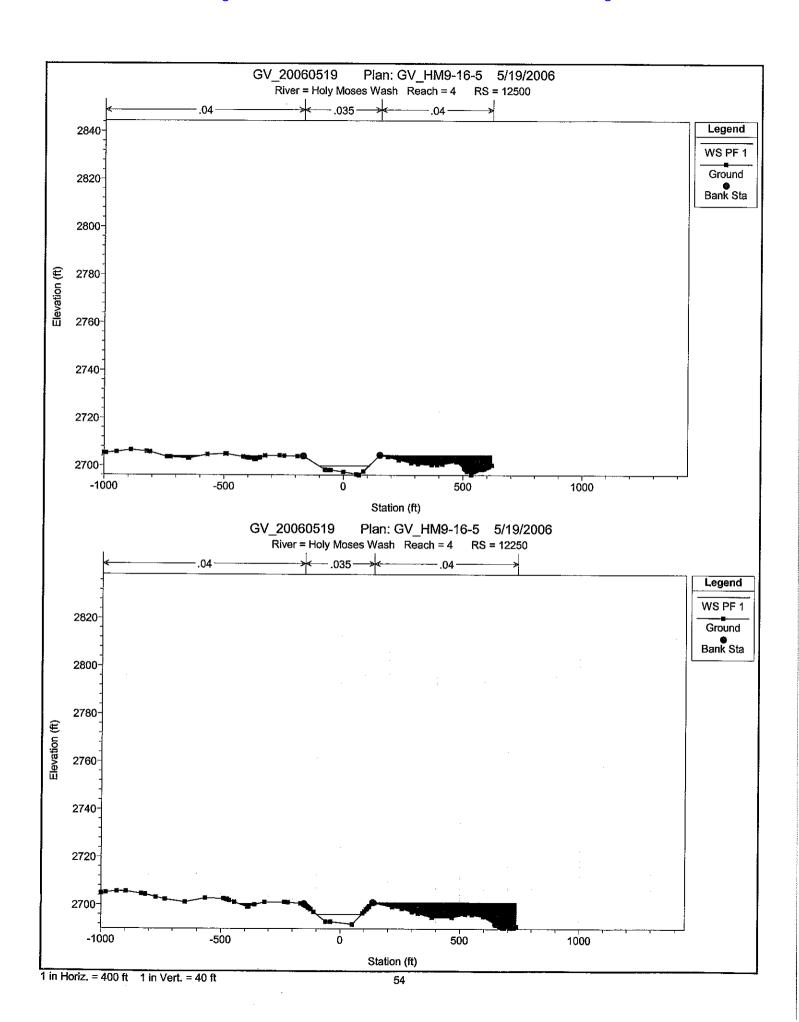


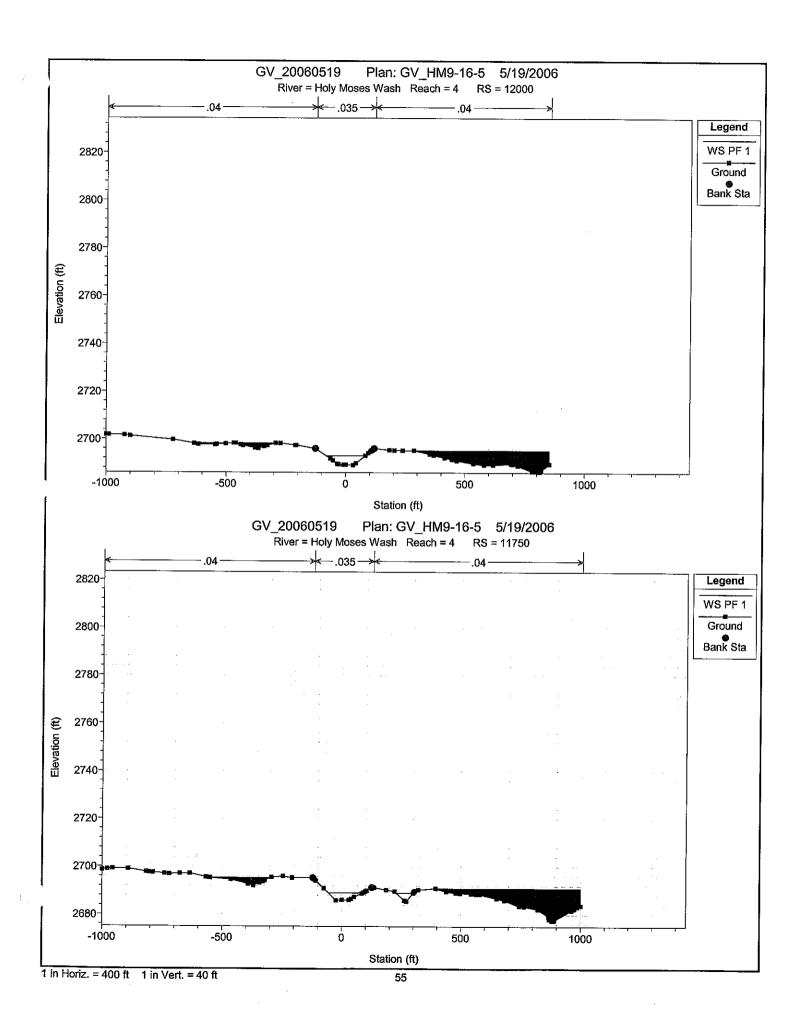


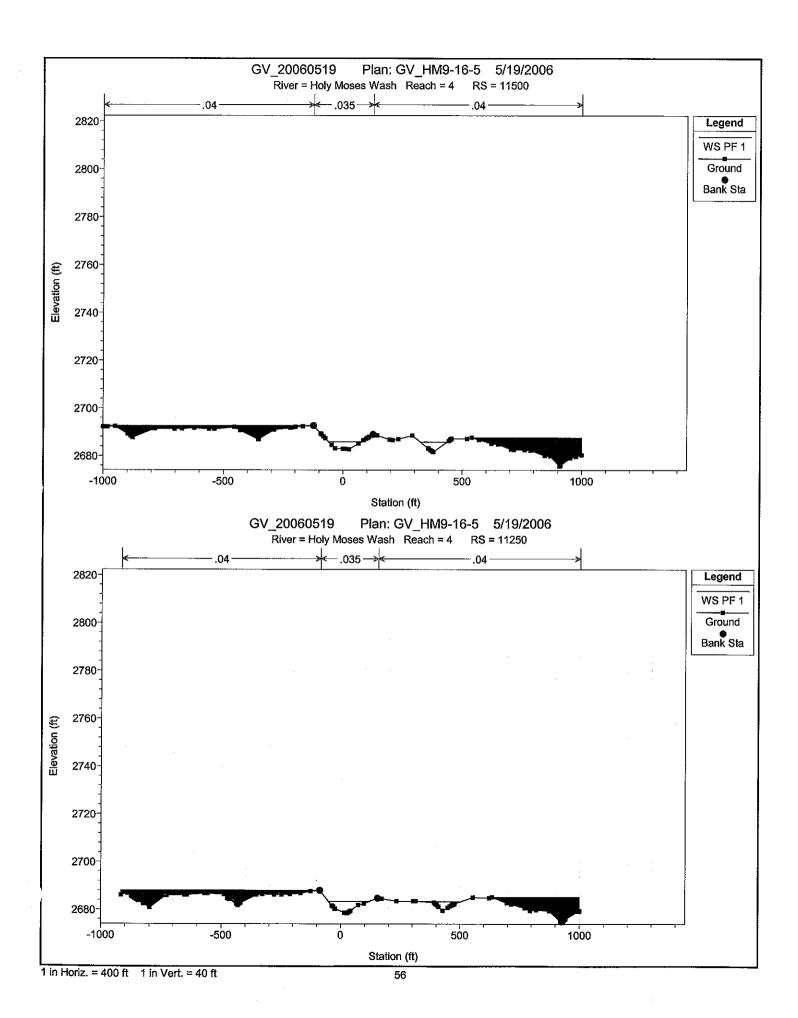


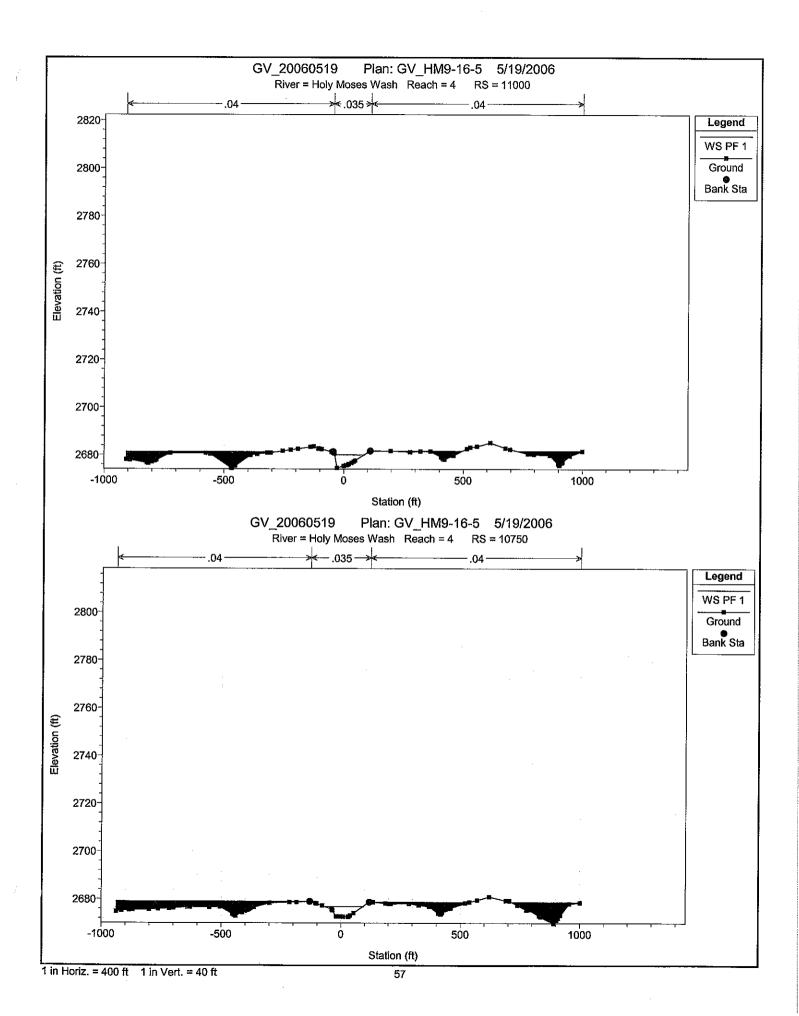


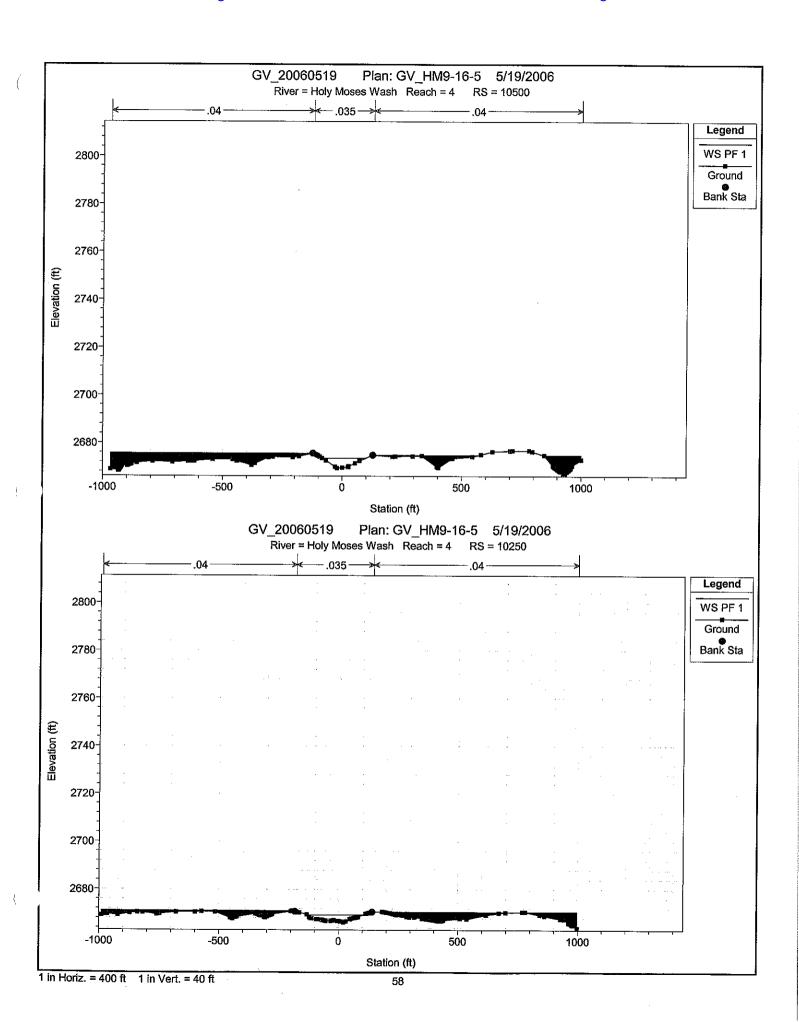












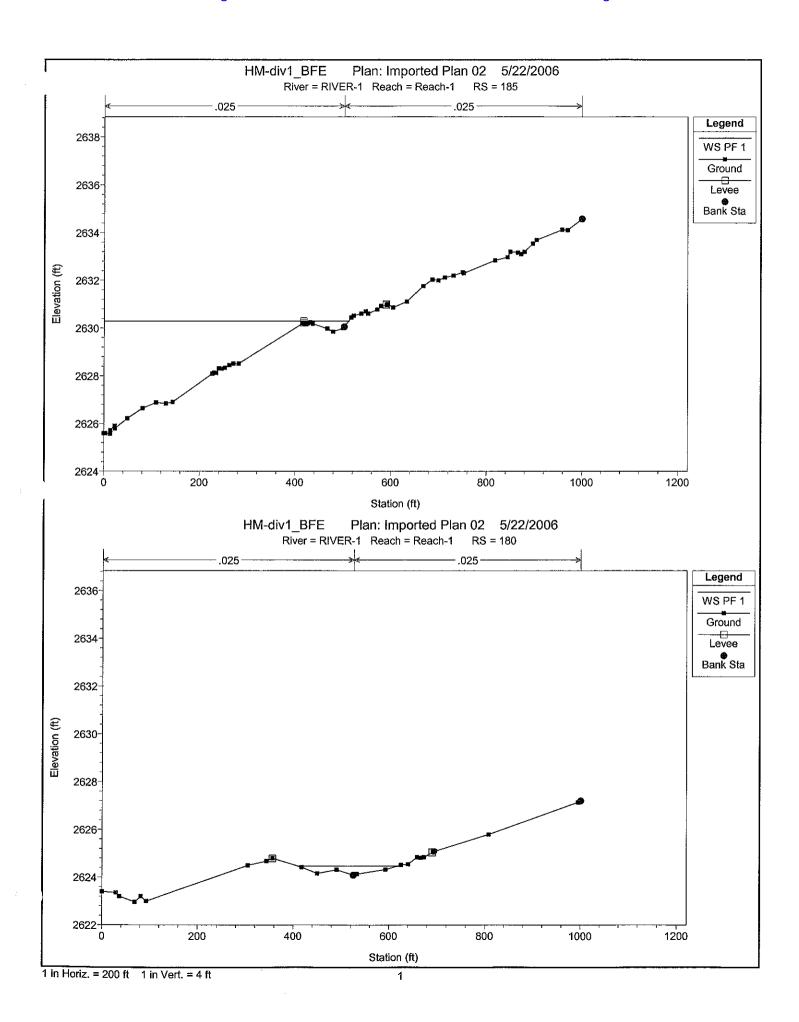
	HEC-RAS	Plan: I	mported	Pla River:	RIVER-1	Reach: Re	ach-1 Pro	file: PF 1	
Reach									Froude # Chl
. touo.	Taror ota		(cfs)	(ft)	(ft)	(ft/s)	(sq ft)	(ft)	110000 # 0111
Reach-1	213	PF 1	111			2.08	37.6	67.1	0.62
Reach-1		PF 1	111				28.76		0.72
Reach-1		PF 1	111				29.47		1.01
Reach-1		PF 1	111				21.58	44.02	0.01
Reach-1		PF 1	111				18.28	93.8	2.01
Reach-1		PF 1	111				33.39	101.93	1.02
Reach-1		PF 1	111			2.71	35.34		1.02
Reach-1		PF 1	111				34.75		0.55
Reach-1		PF 1	111				25.43		
Reach-1		PF 1	111	2655.36			35.35		
Reach-1		PF 1	111	2653.57		2.13			
Reach-1		PF 1	111						0.69
Reach-1		PF 1	111						
Reach-1		PF 1	111	2648.63					0.46
Reach-1		PF 1	111	2648.35					
Reach-1	198	PF 1	111				27.17		
Reach-1	197	PF 1	111				26.22		0.74
Reach-1	196	PF 1	111				24.98		
Reach-1	195	PF 1	111						1.02
Reach-1	194	PF 1	111	2640.4	2641.79		21.49	31.91	1.11
Reach-1	193	PF 1	111	2639.47	2640.75		23.05		1.05
Reach-1	192	PF 1	111	2638.38	2640.07		32.52		0.79
Reach-1	191	PF 1	111	2638.17	2638.18	0.12	24.2	36.39	0.4
Reach-1	190	PF 1	111	2635.7	2636.66	6.42	17.28	35.98	1.63
Reach-1	189	PF 1	111	2635.03	2635.05	0.26	28.75	46.35	0.44
Reach-1	188	PF 1	111	2633.42	2634.12	3.03	28.06	55.78	0.9
Reach-1	187	PF 1	111	2632.57	2632.89	2.18	32.16	105.99	0.97
Reach-1	186	PF 1	111	2631.7	2631.85	1.22	39.62	158.38	0.79
Reach-1	185	PF 1	111	2630.05	2630.29	0.02	1044.37	511.13	0.01
Reach-1		PF 1	111				898.33	480.04	0
Reach-1		PF 1	111						
Reach-1		PF 1	111						1.02
Reach-1		PF 1	111	2625.29					88.0
Reach-1		PF 1	111						0.94
Reach-1		PF 1	111						
Reach-1		PF 1	111				310.24		
Reach-1		PF 1	111				370.96		
Reach-1		PF 1	111				11.62		
Reach-1		PF 1	111				295.26		
Reach-1		PF 1	111				544.02		
Reach-1		PF 1	111						
Reach-1		PF 1	111			0.36			
Reach-1		PF 1	111				16.92		4.34
Reach-1		PF 1	111				45.83		
Reach-1		PF 1	111						
Reach-1		PF 1	111						
Reach-1		PF 1	111						
Reach-1		PF 1	111						
Reach-1	165	PF 1	111	2603.52	2605.51	0.06	549.62	520.9	0.02

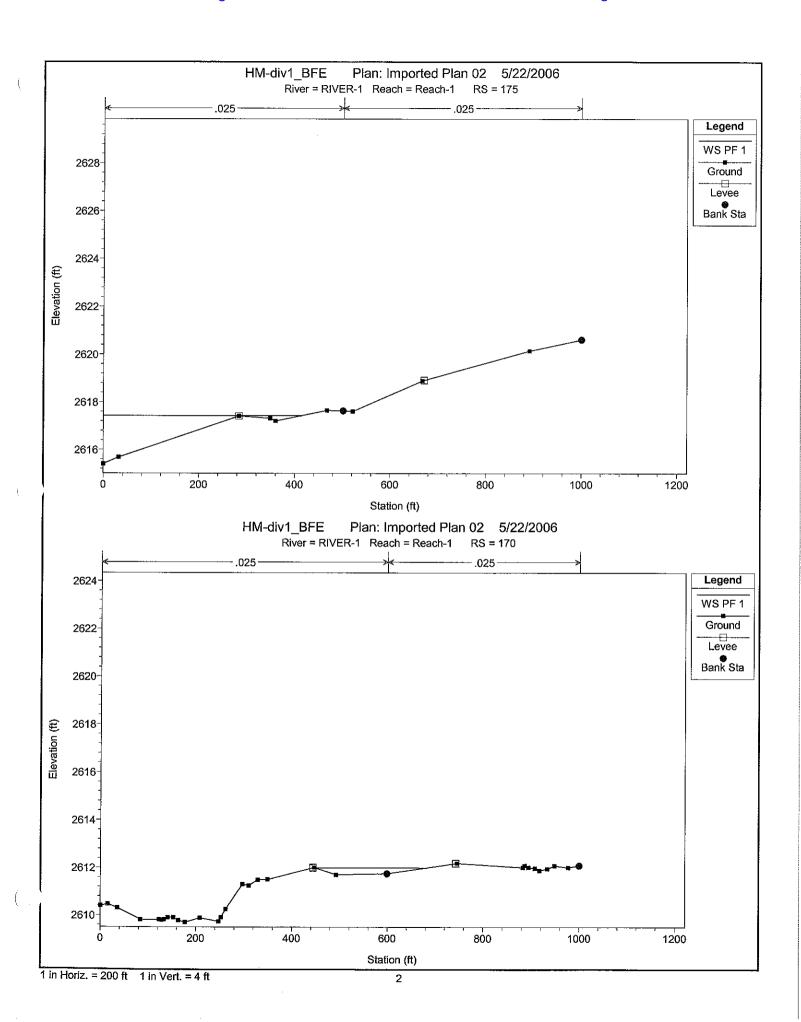
	HEC-RAS Plan:	Imported	Pla River:	RIVER-1	Reach: Re	ach-1 Pro	file: PF 1	
Reach	River Sta Profile							Froude # Chi
Reach-1	164 PF 1	111		2603.82	10.15	11.24	42.66	3.4
Reach-1	163 PF 1	111		2602.33		624.87	532.46	
Reach-1	162 PF 1	111		2600.69		531.59	405.8	
Reach-1	161 PF 1	111		2599.46		13.08	215.65	
Reach-1	160 PF 1	111		2598.12		71.58	264.79	
Reach-1	159 PF 1	111		2597.41	2.4	47.88	281.59	and the second s
Reach-1	158 PF 1	111		2595.74		442.03	508.11	0.05
Reach-1	157 PF 1	111		2594.65		33.01	94.89	1.01
Reach-1	156 PF 1	111	2590.9	2593.68		47.85	92.31	0.54
Reach-1	155 PF 1	111	2591.14	2592.31	2.42	33.82	100.35	
Reach-1	154 PF 1	111	2589.5			36.12	145.65	
Reach-1	153 PF 1	111	2587.4	2589.92	2.29	37.32	103.25	
Reach-1	152 PF 1	111	2586.67	2587.63	4	29.37	67.14	1.02
Reach-1	151 PF 1	111	2584.72	2585.67	5.97	18.27	39.27	1.56
Reach-1	150 PF 1	111	2583.26	2584.53	5.36	21.56	34.16	1.15
Reach-1	149 PF 1	111	2581.99	2582.5		14.07	23.23	0
Reach-1	148 PF 1	111	2579.9	2581.44	2.76	43.27	59.84	0.54
Reach-1	147 PF 1	111	2579.27	2580.19	4.01	26.9	39.6	0.88
Reach-1	146 PF 1	111	2578.07	2579.2	4.36	25.89	47.66	1.03
Reach-1	145 PF 1	111	2576.23	2577.75	1.93	45.7	52.35	0.43
Reach-1	144 PF 1	111	2575.61	2576.94	4.55	24.01	35.16	0.98
Reach-1	143 PF 1	111		2575.56	1.99	21.67	43.96	0.96
Reach-1	142 PF 1	111	2572.94	2574.03	8.54	14.73	33.35	2.04
Reach-1	141 PF 1	111	2571.25	2573.14	4.85	23.74	34.22	1
Reach-1	140 PF 1	111	2570.41	2572.35	1.24	39.54	45.71	0.42
Reach-1	139 PF 1	111	2570.46	2571.64	4.17	23.11	32.25	
Reach-1	138 PF 1	111	2567.98	2570.63	6.4	17.34	26.86	1.4
Reach-1	137 PF 1	111	2567.48	2569.51	4.87	25.96	50.49	0.98
Reach-1	136 PF 1	111	2566.92	2568.85	3.55	30.9	47.5	0.78
Reach-1	135 PF 1	111	2566.33	2567.61	3.63	32.86	48.16	0.73
Reach-1	134 PF 1	111	2565.87	2566.12	1.6	31.04	76.44	0.79
Reach-1	133 PF 1	111	2564.91	2564.85		54.57	44.77	0
Reach-1	132 PF 1	111	2563.7	2564.48	3.33	31.89	82.45	0.95
Reach-1	131 PF 1	111	2561.4	2562.38	6.97	18.04	54.22	1.92
Reach-1	130 PF 1	111	2560.4	2561.41	3.09	33.13	70.33	0.84
Reach-1	129 PF 1	111		2560.06	5.21	22.16	27.95	
Reach-1	128 PF 1	111	2558.14	2559.1	1.58	43.97	47.36	
Reach-1	127 PF 1	111	2556.93	2558.02	4.32	24.2	35.69	0.96
Reach-1	126 PF 1	111	2556.45	2557.53	2.98	40.63	62.9	
Reach-1	125 PF 1	111	2555.89	2556.46	2.93	31.93	87.29	
Reach-1 Reach-1	124 PF 1 123 PF 1	111	2554.52	2555.5	1.76	64.57	117.53	
Reach-1	123 PF 1	111	2554.09	2554.11	0.26	26.56	49.2	0.5
Reach-1	122 PF 1 121 PF 1	111	2554.18	2553.54	0.70	54.07	81.6	0
Reach-1	121 PF 1 120 PF 1	111 111	2552.59	2553.04	2.73	37.62	137.84	0.97
Reach-1	120 PF 1 119 PF 1		2551.8	2552.25	1.34	54.72	132.99	0.48
Reach-1	118 PF 1	111	2550.8	2551.57	3.01	37.18	136.19	1.01
Reach-1	116 PF 1 117 PF 1	111	2549.9	2550.17	3.22	26.12	131.75	1.54
Reach-1	117 PF 1 116 PF 1	111 111	2548.51 2547.17	2549.2	2.54	44.58	233.1	1
Reach-1	115 PF 1	111	2547.17	2548.43	0.76	32.91	94.03	0.67
i Neath 1	HOFF	111	2545.7	2547.29	0.3	373.83	529.14	0.06

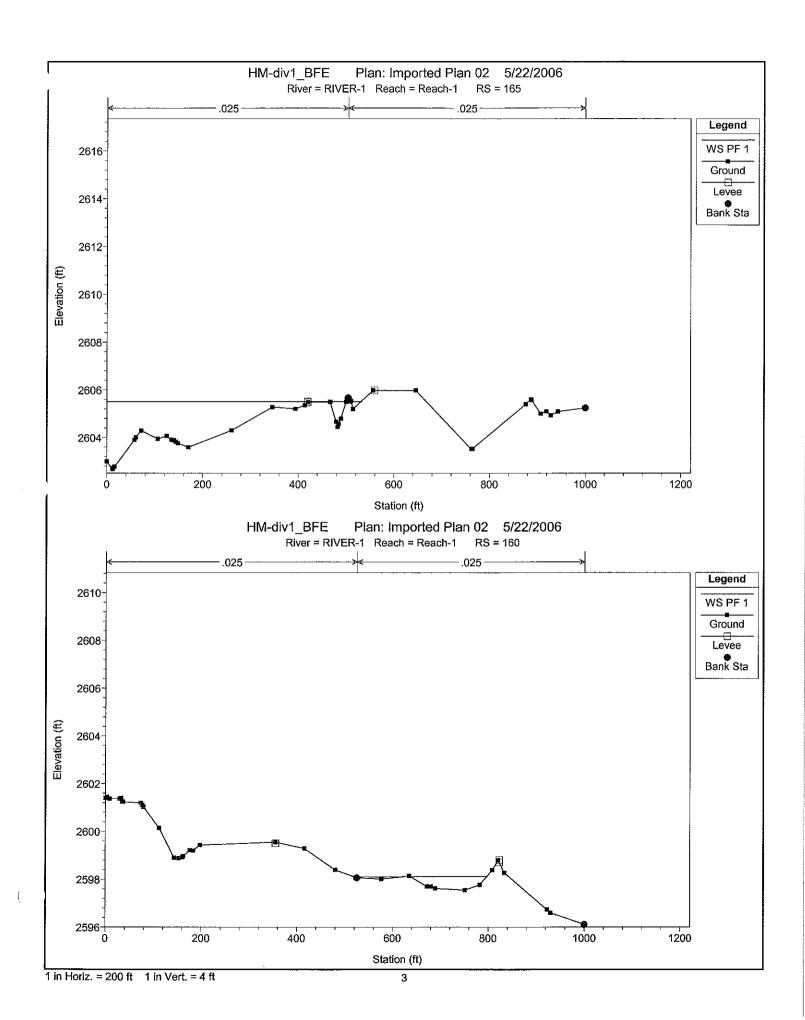
F	ILIEO DAO	D1			Diamay				
Doosh				Pla River:		Reach: Re		file: PF 1	
Reach	River Sta			Min Ch El					Froude # Chl
Reach-1		PF 1	111				602.9	581.74	0.03
Reach-1		PF 1	111				12.51	125.53	0
Reach-1		PF 1	111		2543.61	0.57	203.91	416.38	
Reach-1		PF 1	111				11.25	74.48	
Reach-1		PF 1	111		2540.67		55.11	141.64	
Reach-1		PF 1	111		2539.76		32.28	89.68	1.01
Reach-1		PF 1	111			3.14	32.36	95.53	1.01
Reach-1		PF 1	111	2536.81	2537.78		41.76	99.9	0.68
Reach-1		PF 1	111			1.88	44.26	86.13	0.55
Reach-1		PF 1	111	2535.35			33.28	90.07	0.85
Reach-1		PF 1	111	2534.75			50.68	129.58	0.54
Reach-1		PF 1	111	2534	2534.42		42.65	190.43	0.97
Reach-1		PF 1	111	2532.2	2532.74	2.29	49.35	149.02	0.69
Reach-1		PF 1	111	2531.57	2532	2.43	42.14	181.68	0.93
Reach-1		PF 1	111	2531	2531.22	0.87	71.52	280.4	0.46
Reach-1		PF 1	111	2529.46	2529.99	2.96	36.1	120.97	0.98
Reach-1		PF 1	111	2528.75	2529.06	0.41	172.66	533.65	0.18
Reach-1		PF 1	111	2526.4	2527.77	7.73	14.36	57.56	2.73
Reach-1		PF 1	111	2524.8	2526.93	0.2	557.46	471.79	0.03
Reach-1		PF 1	111	2523.46	2525.99	0.17	653.46	432.15	0.02
Reach-1		PF 1	111	2522.24	2524.96		14.31	67.07	0
Reach-1		PF 1	111	2520.7	2523.55	0.17	663.46	402.71	0.02
Reach-1		PF 1	111	2519.5	2523.55	0.12	964.25	566.84	0.01
Reach-1		PF 1	111	2519.05	2521.9	9.77		75.43	4.48
Reach-1		PF 1	111	2518.26	2520.78	0.26	429.78	473.93	0.05
Reach-1		PF 1	111	2518.3	2519.46	8.78	12.73		4.14
Reach-1		PF 1	111	2516.92	2518.52	1.18	74.7	209.78	0.4
Reach-1		PF 1	111	2513.83	2517.71		38.34	152.55	. 0
Reach-1		PF 1	111	2512.36	2516.33	0.14	773.82	532.91	0.02
Reach-1		PF 1	111	2512.3	2514.61	10.04	11.06	121.68	5.87
Reach-1		PF 1	111	2511.2	2513.22	1.83	60.78	182.22	0.56
Reach-1		PF 1	111	2510.08	2513.25	0.19	608.17	580.56	0.03
Reach-1	82	PF 1	111	2510.34	2511.78	2.47	44.98	242.5	1.01
Reach-1		PF 1	111	2509.07	2510.67	0.52	211.56	388.94	0.13
Reach-1		PF 1	111	2507.88	2509.29	7.46	12.79	153.94	4.65
Reach-1		PF 1	111	2505.48	2507.79	0.25	448.42	514.75	0.05
Reach-1		PF 1	111	2504.29	2506.68	8.04	13.81	77.81	3.36
Reach-1		PF 1	111	2502.72	2506.08	2.73	41.61	117.78	0.79
Reach-1	76	PF 1	111	2501.32	2505.07	2.99	38.19	136.89	0.96
Reach-1	75	PF 1	111	2500.9	2503.77	1.75	43.22	204.95	0.88
Reach-1		PF 1	111	2500.05	2502.19	3.66	27.62	279.21	2.18
Reach-1	73	PF 1	111	2499.41	2501.03	2.55	43.51	214.65	1
Reach-1	72	PF 1	111	2497.77	2500.33		48.68	119.34	0
Reach-1	71	PF 1	111	2496.18	2499.5	3.25	34.29	104.11	0.99
Reach-1	70	PF 1	111	2495.3	2498.55	0.17	665.33	410.04	0.02
Reach-1	69	PF 1	111	2494	2497.78	0.17	654.43	423.14	0.02
Reach-1	68	PF 1	111	2492.99	2496.88	4.37	16.35	117.11	2.69
Reach-1	67	PF 1	111	2493.36	2496.05	0.83	51.59	143.71	0.48
Reach-1	66	PF 1	111	2491.74	2495.27	1.66	35.43	110.83	0.79
Reach-1	65	PF 1	111	2491.84	2494.56	1.76	51.74	163.62	0.63

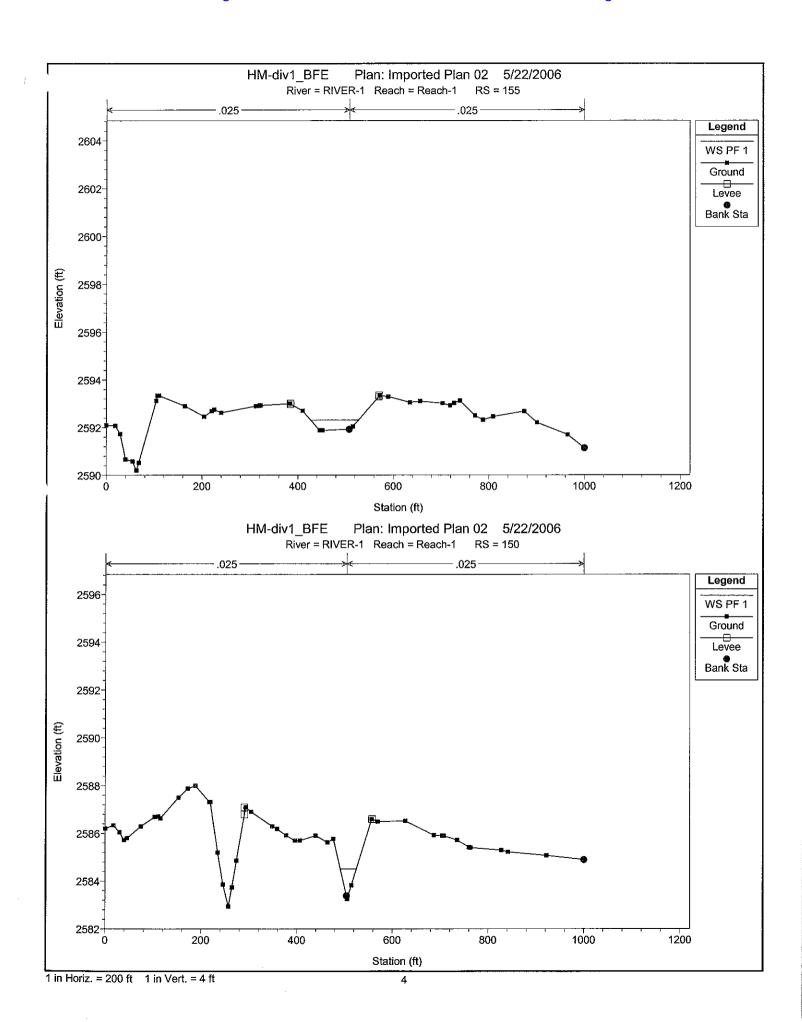
	HEC-RAS	Plan: I	mported	Pla River:	RIVER-1	Reach: Re	ach-1 Pro	file: PF 1	
Reach						Vel Chnl	Flow Area	Ton Width	Froude # Chl
Reach-1		PF 1	111		2493.64		49.9		0.53
Reach-1		PF 1	111		2492.07		49.9 42.67		0.55
Reach-1		PF 1	111		2490.84		45.64		0.79
Reach-1		PF 1	111		2490.08				
Reach-1		PF 1	111		2489.19		36.76		0.72
Reach-1		PF 1	111		2488.7				0.72
Reach-1		PF 1	111		2487.19		11.86		4.17
Reach-1		PF 1	111	2484.02	2485.99				4.17
Reach-1		PF 1	111		2484.8				0.5
Reach-1		PF 1	111		2483.92				0.5
Reach-1		PF 1	111		2482.18				2.05
Reach-1		PF 1	111		2481.47				1.02
Reach-1		PF 1	111		2480.71	1.55		146.69	0.54
Reach-1		PF 1	111		2479.04				0.92
Reach-1		PF 1	111		2478.09				0.74
Reach-1		PF 1	111		2477.12			596.66	0.09
Reach-1		PF 1	111	2469.72	2475.37			43.42	3.4
Reach-1		PF 1	111	2467.84	2474.18	4.4			1.03
Reach-1		PF 1	111	2466.59	2472.29	7.63			1.85
Reach-1		PF 1	111	2465.8	2471.16	4.15			0.99
Reach-1		PF 1	111	2464.11	2468.96	3.31	11.48		1.9
Reach-1		PF 1	111	2464.18	2467.98	5,5.	23.77		0
Reach-1		PF 1	111	2464.1	2465.6	4.5		55.85	1.07
Reach-1	41	PF 1	111	2462.15	2462.91	6.73		56.41	2.2
Reach-1	40	PF 1	111	2461.76	2462.67	3.44			1.01
Reach-1	39	PF 1	111	2460.7	2461.59	1.68			0.42
Reach-1	38	PF 1	111	2460.2	2461.04	2.31	39.11	78.49	0.65
Reach-1	37	PF 1	111	2459.7	2460.37	2.19	37.36	100.46	0.76
Reach-1	36	PF 1	111	2459.4	2459.31		28.07	58.03	0
Reach-1	35	PF 1	111	2458.21	2458.77	1.55		112.76	0.53
Reach-1	34	PF 1	111	2456.31	2457.88	2.85		117.16	0.89
Reach-1	33	PF 1	111	2456.1	2456.8	3.37	33.86	86.2	0.93
Reach-1	32	PF 1	111	2456.37	2456.43	0.51	37.72	92.96	0.52
Reach-1	31	PF 1	111	2454.89	2455.86	2.44	48.1	114.68	0.64
Reach-1	30	PF 1	111	2454.69	2455.49	1.3	65.17	192.65	0.47
Reach-1	29	PF 1	111	2453.96	2454.63	2.52	38.4	156.59	0.99
Reach-1	28	PF 1	111	2453.19	2453.98	3.06	43.89	126	0.71
Reach-1	27	PF 1	111	2453.06	2453.51	1.6	64.67	241.71	0.57
Reach-1	26	PF 1	111	2452.64	2452.64		40.88	182.1	0
Reach-1	25	PF 1	111	2451.82	2452.06	2.3	31.82	176.98	1.21
Reach-1	24	PF 1	111	2450.77	2451.06	2.4	39.67	170.06	0.98
Reach-1	23	PF 1	111	2447.7	2450.21	2.55	48.87	151.47	0.71
Reach-1	22	PF 1	111	2447.2	2449.46	3.14	38.32	105.79	8.0
Reach-1	21	PF 1	111	2448.1	2449.22	1.36	84.45	219.35	0.38
Reach-1	20	PF 1	111	2447.59	2448.74	2.27	43.07	211.46	0.96
Reach-1	19	PF 1	111	2446.9	2447.83	1.83	63.41	160.47	0.49
Reach-1	18	PF 1	111	2446.17	2447.24	2.53	40.28	149.29	0.9
Reach-1	17	PF 1	111	2445.55	2446.85	1.63	69.91	169.29	0.44
Reach-1	16	PF 1	111	2444.94	2445.97	3.46	31.69	87.56	1.01
Reach-1	15	PF 1	111	2443.26	2444.64	2.12	26.44	36.91	0.61

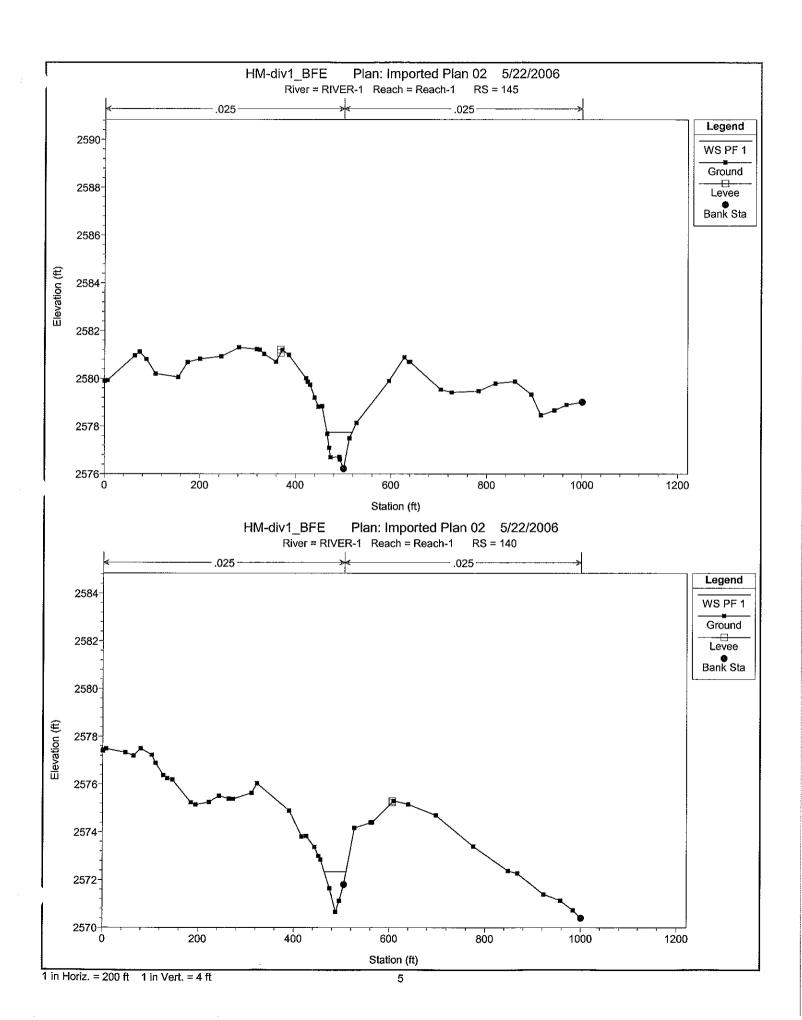
	HEC-RAS Plan: I				Reach: Re		file: PF 1	
Reach	River Sta Profile	Q Total	Min Ch El	W.S. Elev	Vel Chnl	Flow Area	Top Width	Froude # Chl
Reach-1	14 PF 1	111	2442.03	2443.4	6.17	16.24	20.61	1.34
Reach-1	13 PF 1	111	2442.1	2443.47	1.5	47.6	51.08	0.37
Reach-1	12 PF 1	111	2440.8	2442.44	3.55	23.71	34.27	0.91
Reach-1	11 PF 1	111	2441.9	2442.18	0.75	44.81	73.44	0.41
Reach-1	10 PE 1	111	2440.39	2441.53	1.98	43.03	61.11	0.43
Reach-1	9 PF 1	111	2439.92	2440.54	1.86	31.5	46.28	0.6
Reach-1	8 PF 1	111	2439.1	2439.76	3.7	25.4	41.61	0.94
Reach-1	7 PF 1	111	2437.5	2438.04	8.55	11.88	25.86	2.36
Reach-1	6 PF 1	111	2437.28	2438.14	2.32	28.54	37.76	0.65
Reach-1	5 PF 1	111	2436.62	2437.39	2.93	24.89	36.01	0.81
Reach-1	4 PF 1	111	2435.2	2436.06	6.43	17.83	26.84	1.35
Reach-1	3 PF 1	111	2434.2	2435.98	2.84	33.11	26.5	0.5
Reach-1	2 PF 1	111	2434.1	2435.51	2.47	35.6	26.19	0.44
Reach-1	1 PF 1	111	2433.5	2434.5	4.12	22.57	27.16	0.89

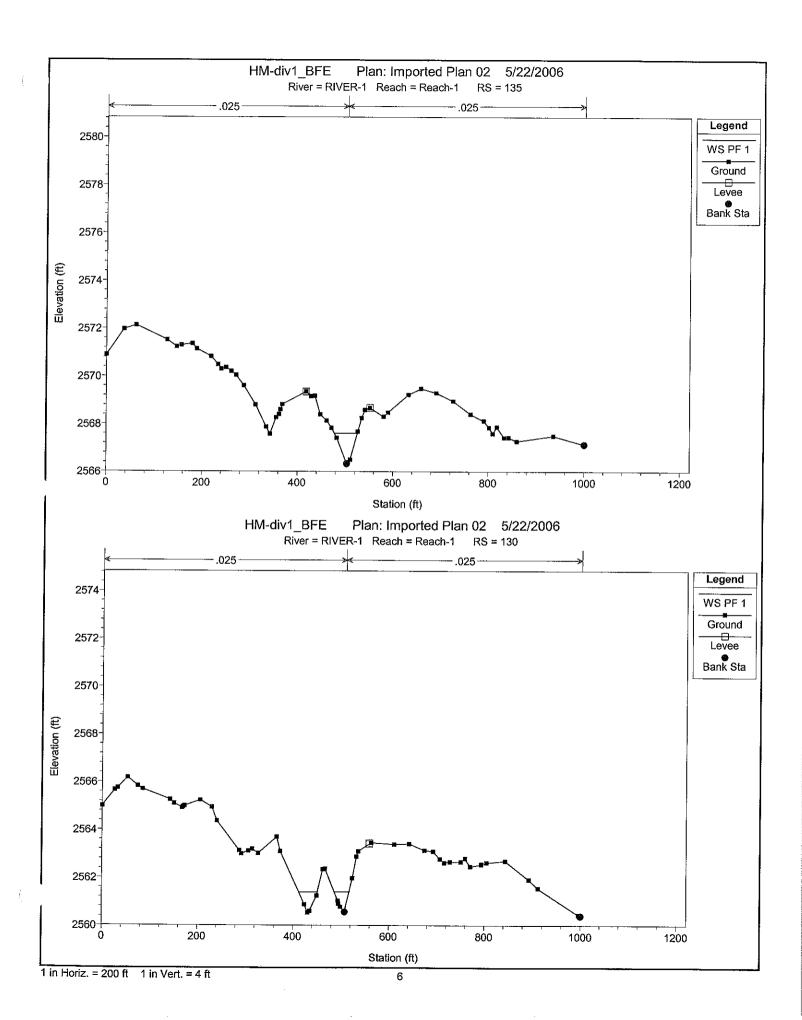


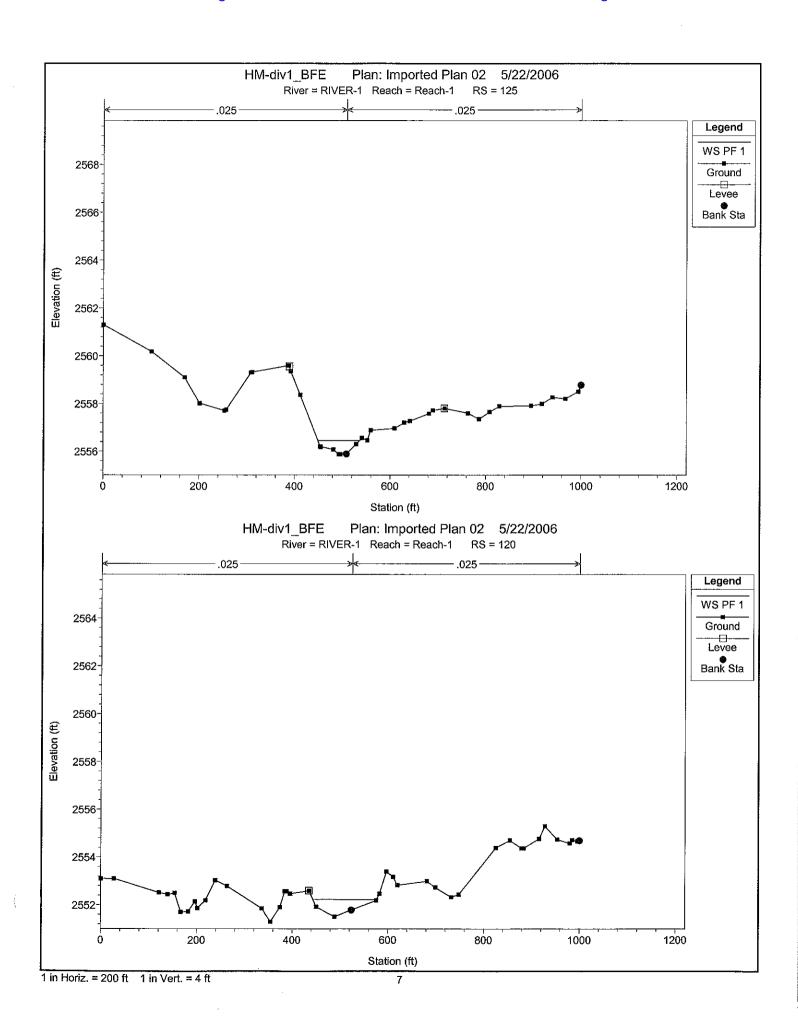


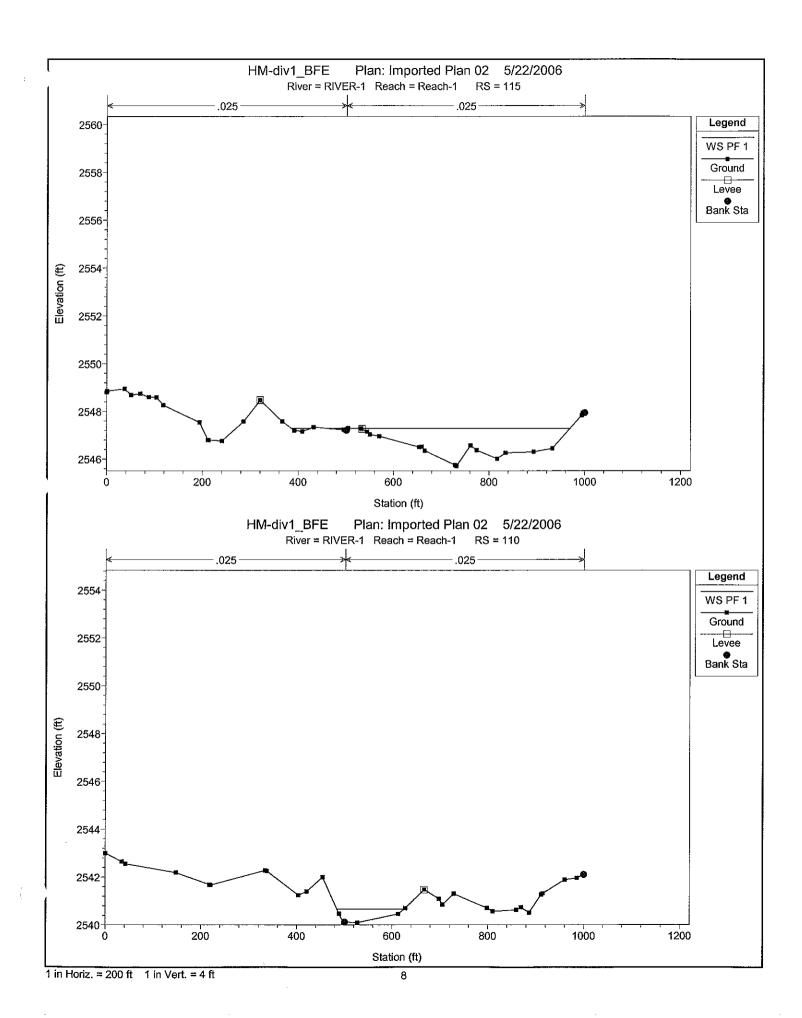


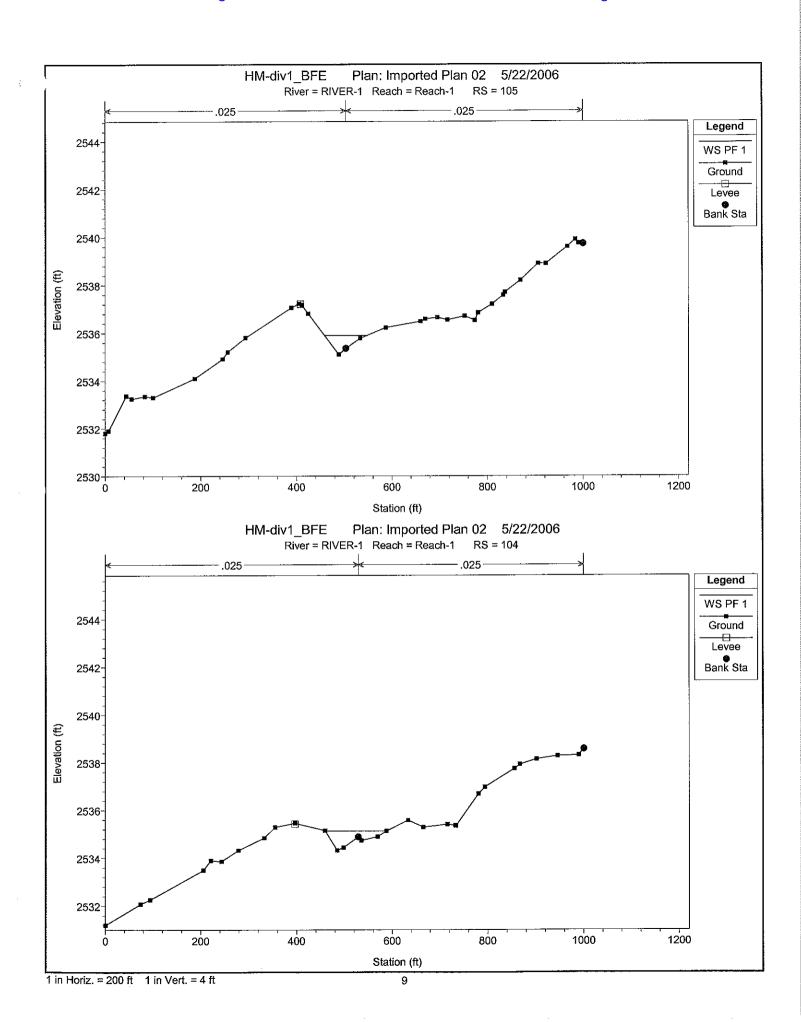


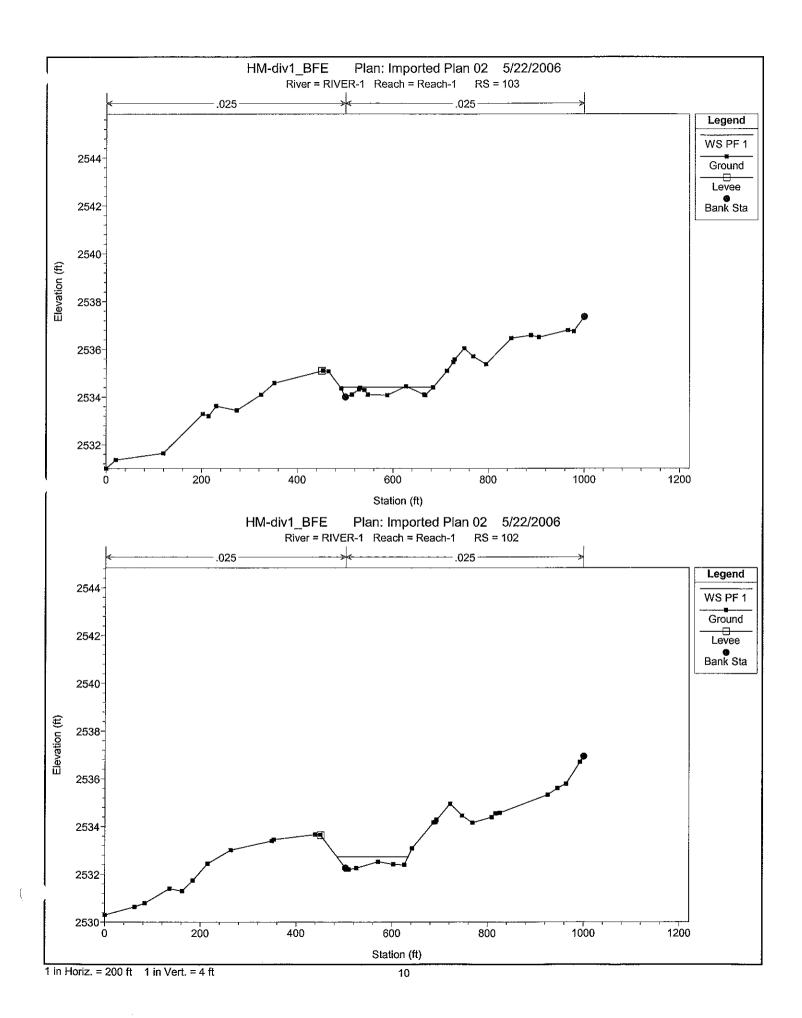


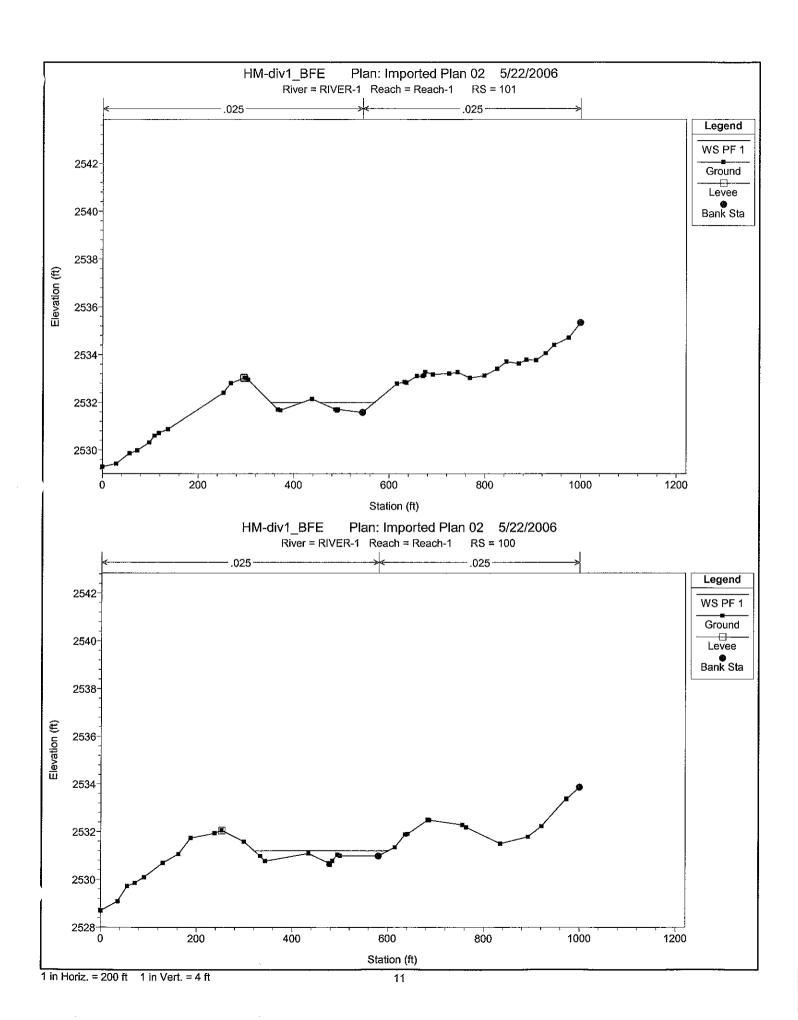


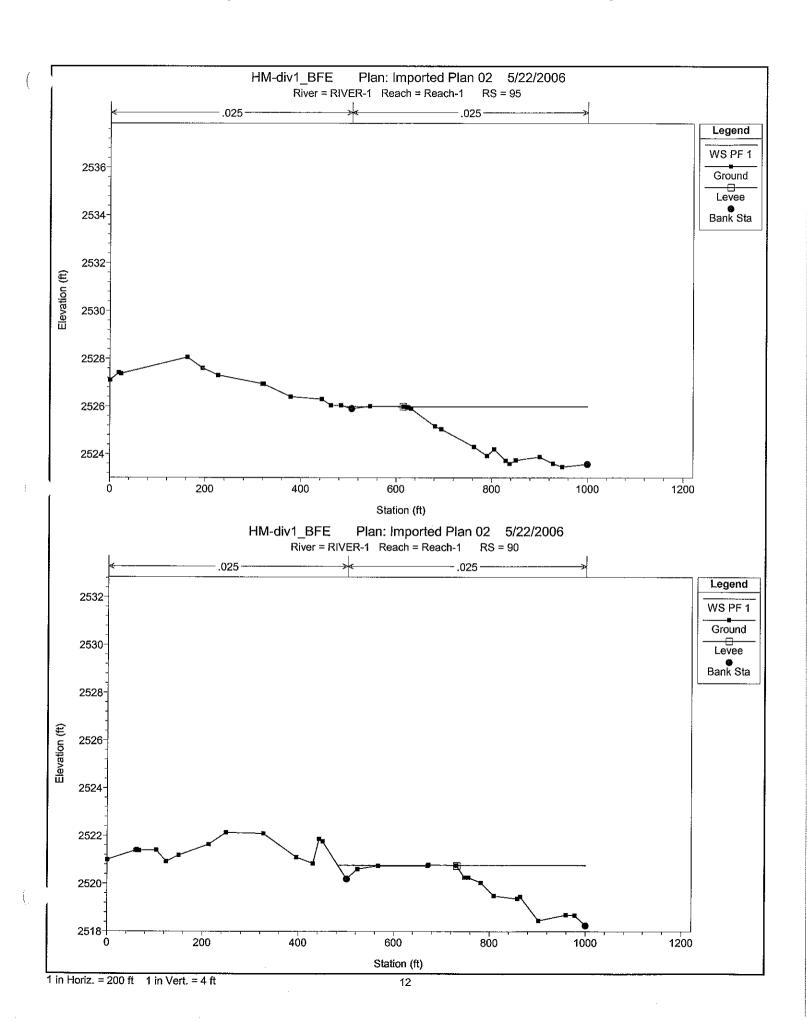


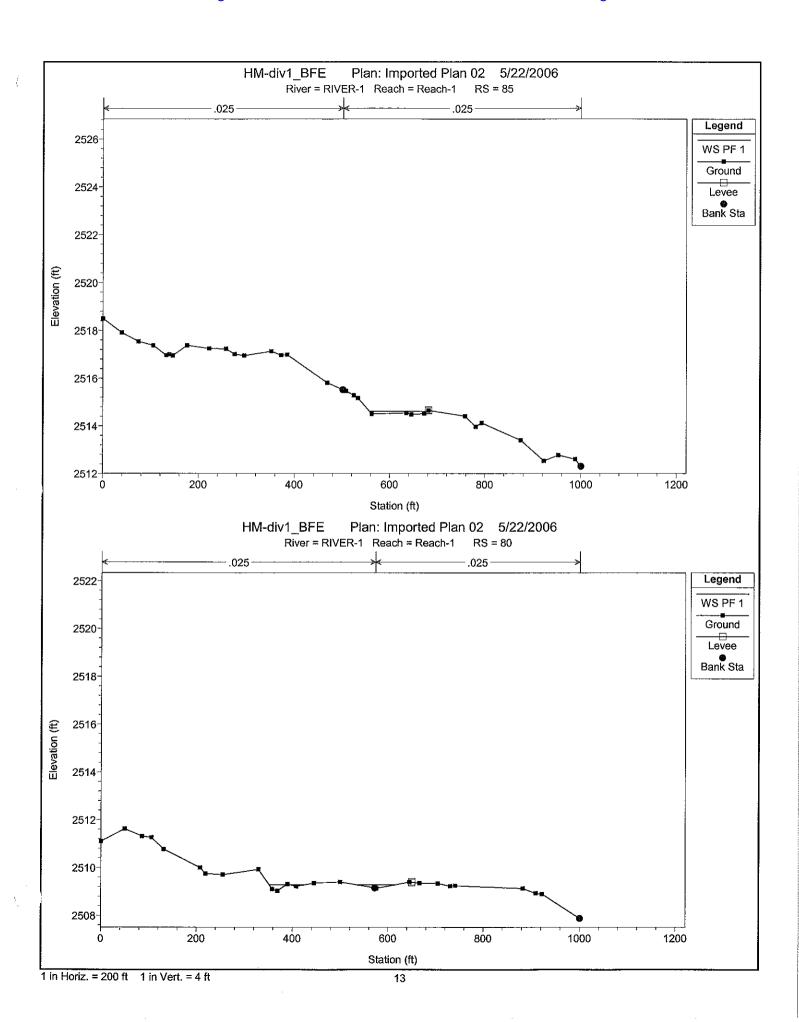


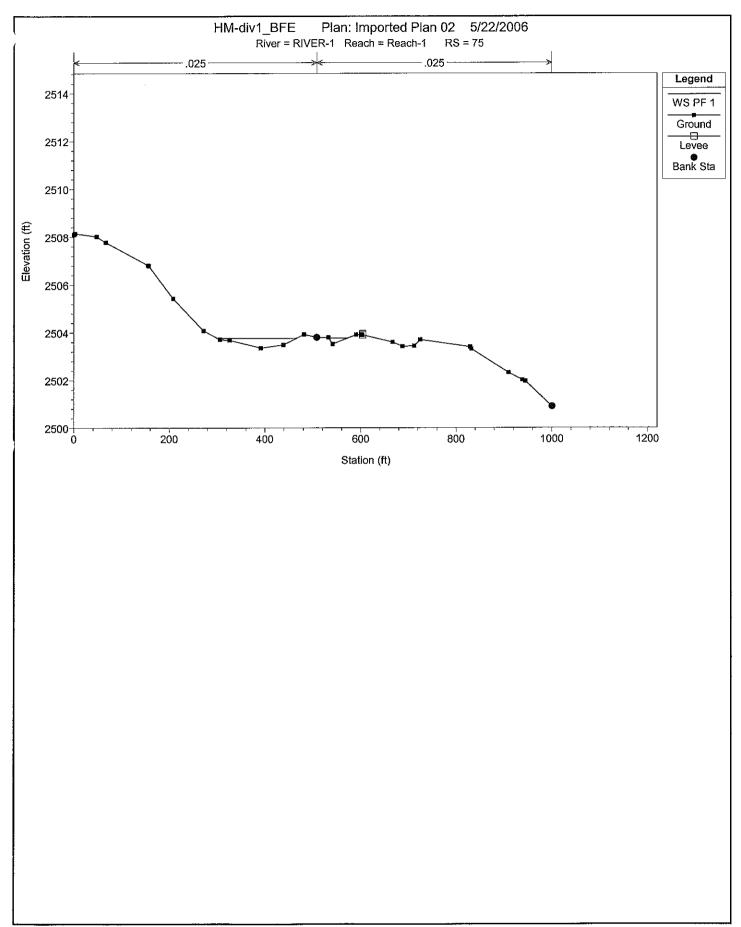






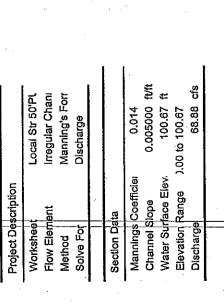


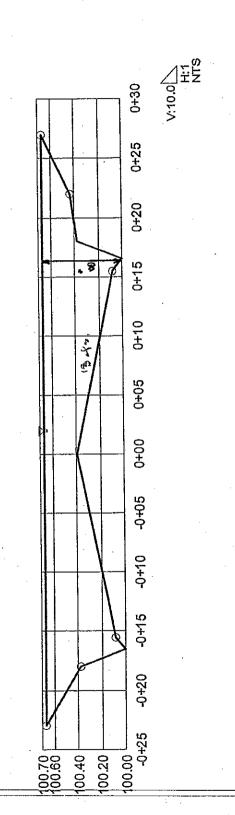




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Cross Section for Irregular Channel Cross Section





Project Engineer: Information Services FlowMaster v7.0 [7.0005] Page 1 of 1 Stanley Consultants, Inc ST Brookside Road Waterbury, CT 06708 USA +1-203-755-1666

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Table Rating Table for Irregular Channel

Project Description	
Worksheet	Local Str 50'PU
Flow Element	Irregular Chanı
Method	Manning's Forr
Solve For	Discharge

Input Data

Water Surface Elev. 00.67 ft

Options

Current Roughness Methoved Lotter's Method Open Channel Weighting aved Lotter's Method Closed Channel Weightins Horton's Method

Attribute	Minimum	Maximum	Increment
Channel Slope (ft/ft)	0.005000	0.020000	0.000100

Slope	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft²)	Wetted Perimeter (ft)	Top Width (ft)
(ft/ft)					
0.005000	68.88	3.73	18.5	50.12	50.00
0.005100	69.57	3.76	18.5	50.12	50.00
3.005200	70.25	3.80	18.5	50.12	50.00
0.005300	70.92	3.84	18.5	50.12	50.00
0.005400	71.59	3.87	18.5	50.12	50.00
0.005500	72.25	3.91	18.5	50.12	50.00
0.005600	72.90	3.94	18.5	50.12	50.00
0.005700	73.55	3.98	18.5	50.12	50.00
0.005800	74.19	4.01	18.5	50.12	50.00
0.005900	74.83	4.05	18.5	50.12	50.00
0.006000	75.46	4.08	18.5	50.12	50.00
0.006100	76.09	4.12	18.5	50.12	50.00
0.006200	76.71	4.15	18.5	50.12	50.00
0.006300	77.32	4.18	18.5	50.12	50.00
0.006400	77.93	4.22	18.5	50.12	50.00
0.006500	78.54	4.25	18.5	50.12	50.00
0.006600	79.14	4.28	18.5	50.12	50.00
0.006700	79.74	4.31	18.5	50.12	50.00
0.006800	80.33	4.35	18.5	50.12	50.00
0.006900	80.92	4.38	18.5	50.12	50.00
0.007000	81.51	4.41	18.5	50.12	50.00
0.007100	82.09	4.44	18.5	50.12	50.00
0.007200	82.66	4.47	18.5	50.12	50.00
0.007300	83.23	4.50	18.5	50.12	50.00
0.007400	83.80	4.53	18.5	50.12	50.00
0.007500	84.37	4.56	18.5	50.12	50.00
0.007600	84.93	4.60	18.5	50.12	50.00
0.007700	85.48	4.63	18.5	50.12	50.00
0.007800	1	4.66	18.5	50.12	50.00
0.007900	i	4.69	18.5	50.12	50.00
0.008000		4.71	18.5	50.12	50.00
0.008100	87.68	4.74	18.5	50.12	50.00
0.008200	1	4.77	18.	1	50.00
0.008300	88.75	4.80	18.	5 50.12	50.00

Project Engineer: Information Services

Table Rating Table for Irregular Channel

_												
Cr	nannel	Disc	harge		locity		low		etted		Γορ <i>l</i> idth	
	Slope (ft/ft)	- (1	cfs)	. (ft/s)	1	Area (ft²)	Per	imeter (ft)		(ft)	
-	` 		20.00		4.02		18.5	-	50.12		50.00	
i	08400		89.28		4.83 4.86		18.5		50.12		50.00	
1	08500		89.81		4.89		18.5	ļ	50.12		50.00	
1	008600		90.34 90.87		4.92		18.5	ļ	50.12	Į	50.00	
	08700		91.39		4.94	1	18.5		50.12		50.00	
s	008800 008900	İ	91.90		4.97	ł	18.5	i	50.12		50.00	
	009000	Ì	92.42	1	5.00		18.5	ł	50.12	Ì	50.00	ļ
1	009100		92.93		5.03		18.5	1	50.12		50.00	ļ
	009200	ļ	93.44	1	5.06		18.5		50.12		50.00	
	009300	1	93.95	1	5.08	1	18.5	:[50.12		50.00	
	009400	ĺ	94.45	Ł	5.11	•	18.5	:	50.12		50.00	
	009500	Ì	94.95		5.14		18.5	;	50.12	1	50.00	
1	009600	ı.	95.45	ŀ	5.16		18.5	5	50.12	<u>'</u>	50.00	
1	009700		95.95		5.19		18.5	5ļ	50.12	:	50.00	1
-	009800		96.44		5.22	2	18.5	5]	50.12	2	50.00	1
Э.	009900		96.93	3	5.24	ŀ	18.5	5	50.12	-	50.00	1
Э.	.010000		97.42	2	5.27	7	18.	5	50.12	ı	50.00	ı
Э.	.010100	, 	97.90)	5.30		18.	5	50.12		50.00	
Э.	.010200)	98.39	∍ [`	5.32	2	18.	5	50.12		50.00	ı
Э.	.010300)	98.87	7	5.3	5	18.	- 1	50.12	ŀ	50.00	1
))	.010400	기	99.3	5	5.3		18.	- 1	50.12		50.00	
្រ	.010500)	99.82	2	5.4		18.	•	50.1	- 1	50.00	
)	.010600)	100.3	이	5.4		18.		50.1	- 1	50.00	- 1
ςļ	.010700	기	100.7	-1	5.4	- 1	18.	- 1	50.1		50.00	
	.010800		101.2	1	5.4		18.	- 1	50.13 50.1		50.00 50.00	
	.01090		101.7		5.5	ı	18.	- 1	50.1		50.00	- i
	.01100		102.1	- 1	5.5	- 1	18. 18	- 1	50.1	- 1	50.0	- 1
	.01110		102.6	- 1	5.5	ı	18		50.1	ļ	50.0	. !
- 1	.01120	- 1	103.1	- 1	5.5 5.6	- 1	18	1	50.1		50.0	- i
	0.01130	- 1	103.5 104.0	- 1	5.6	- 1	18		50.1		50.0	- 1
- 1).01140).01150	ı	104.0	- 1	5.6	- 1	18		50.1	- 5	50.0	ı
- 1),01160	- I	104.9	ŧ	5.6	ា	18		50.1	- 1	50.0	0
- 1	0.01170	- 1	105.3	-1	5.7	- 1	18	- 1	50.1	2	50.0	0
	0.01180	- 1	105.8	- 1	5.7	ı	18	.5	50.1	12	50.0	0
- 1	0.01190		106.2	- 1	5.7			.5	50.1	12	50.0	ю
- 1	0.01200	- 1	106.7		5.7	77	18	.5	50.	12	50.0	0
ŧ	0.01210		107.1	16	5.8	30	18	.5	50.	12	50.0	0
- 1	0.01220		107.6	50	5.8	32	18	3.5	50.	12	50.0	- 1
	0.01230	00	108.0	04	5.	85	. 18	3.5	50.	- 1	50.0	
Ì	0.01240	00	108.	48	5.	87		3.5	50.	- 1	50.0	- 1
ļ	0.01250	00	108.	92	5.	89		3.5	50.	- 1	50.0	
	0.01260	00	109.	35		92		3.5	50.	- 1	50.0	•
.	0.01270		109.			94	L	3.5	50.	- 1	50.0	
	0.0128		110.			96		3.5	50.		50.0	
	0.0129	- 1	110.			99	l	3.5	50.	ı	50.0 50.0	
	0.0130		111.			01	1	8.5	50.	- 1	50. 50.	
-	0.0131	- 1	111.			03		8.5	50. 50.	ı	50. 50.	
	0.0132		111.		i	.06 გი	i	8.5 8.5	50. 50.	1	50. 50.	
	0.0133	- 1	112.		l .	.08 . 10	I .	8.5 8.5		12	50.	
	0.0134 0.0135	- 1	112.			.12		8.5		.12	50.	
	0.0136	- 1	113		l	. 15	1	8.5	i	.12	50.	
	0.0130		. 13		<u> </u>		<u> </u>		<u> </u>			